

COLUMBIA UNIVERSITY BULLETIN

# BARNARD COLLEGE



ANNOUNCEMENT FOR 1960-1961

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# Columbia University Bulletin of Information

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MILBANK QUADRANGLE  
THE FIRST DAY OF CLASSES



BARNARD COLLEGE

THE UNDERGRADUATE COLLEGE

OF LIBERAL ARTS

FOR WOMEN

OF

Columbia University

1960 - 1961

MORNINGSIDE HEIGHTS

NEW YORK 27, N. Y.



## COMMUNICATION WITH THE COLLEGE

Students and prospective students should read carefully the pertinent sections of this Announcement, as indicated below, before writing or requesting applications.

The post office address is Barnard College, 606 West 120th Street, New York 27, N. Y. The telephone number is UNiversity 5-4000.

Inquiries should be addressed as follows:

General matters pertaining to the College: the General Secretary

Admission to the freshman class or with advanced standing, information about scholarships for entering students and requests for catalogues: the Director of Admissions

Scholarships and loan funds for students in college: the Dean of Studies

Academic work of students: the Class Advisers

Payment of college bills: the Bursar

Requests for transcripts and notices of withdrawal: the Registrar

Health: the College Physician

Opportunities for self-help, recommendations for employment: the Placement Office

Gifts or bequests: the General Secretary

Alumnae: the Executive Secretary of the Associate Alumnae

Public Relations: the Director of Public Relations



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BARNARD is the undergraduate liberal arts college for women of Columbia University. Since its founding in 1889, it has aimed to offer young women an education of high standard. Through giving wide opportunities for serious study, it has opened to its students the delights of learning and the training prerequisite for the professions.

Because of Barnard's relationship to Columbia, our curriculum is extensive in its scope as well as demanding in its approach to study. Whatever its students desire to learn may be found in the opportunities offered by our faculty and by a great University; whatever fruits of learning they wish to taste — whether in the arts or in the business of the community — they may discover in New York City, of which Barnard is proud to be a part. In addition, they will find a well-rounded, mature program of college activities, shared with student members of the University community.

Underlying our curriculum and our daily round of activity is the conviction that a college education is a high privilege; that those who have great opportunity have the responsibility to use it to the full. For learning alone is not enough; it must be used with wisdom to make living creative and effective. We welcome students who share this conviction; who wish to learn so that they may take their part in our complex and exciting world.

Millicent C. McIntosh



# I. Organization

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MRS. HOMER VAN BEUREN JOY, *Alumnae Trustee*

MRS. SYDNEY S. SPIVAK, *Alumnae Trustee*

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MRS. OGDEN REID, *Trustee Emeritus*

### *Faculty Representatives to Meet with Trustees*

PROFESSOR AMELIA A. DE DEL RÍO

PROFESSOR RICHARD P. YOUTZ



## THE FACULTY OF BARNARD COLLEGE

GRAYSON KIRK, 1952, President of the University

A.B., Miami; A.M., Clark; Ph.D., Wisconsin; LL.D.

MILLICENT CAREY MCINTOSH, 1947, President of Barnard College and  
Dean in the University

A.B., Bryn Mawr; Ph.D., Johns Hopkins; LL.D.; Litt.D.; L.H.D.

HENRY A. BOORSE, 1937, Dean of the Faculty and Professor of Physics  
B.S., United States Naval Academy; A.M., Ph.D., Columbia

<sup>1</sup>HELEN PHELPS BAILEY, 1933, Dean of Studies and Associate Professor of  
French

A.B., Barnard; A.M., Ph.D., Columbia

JANET ADAM SMITH, 1960, Virginia C. Gildersleeve Visiting Professor of  
English

B.A., Oxford

DOROTHY M. EMMET, 1960, Visiting Professor of Philosophy

B.A., M.A., Oxford; M.A., Manchester

DANIEL AARON, 1960, Visiting Professor of American Studies

A.B., Michigan, Ph.D., Harvard

<sup>1</sup>RENÉ ALBRECHT-CARRIÉ, 1945, Professor of History

A.B., A.M., Ph.D., Columbia

BERNARD BARBER, 1952, Associate Professor of Sociology

A.B., A.M., Ph.D., Harvard

MARISTELLA DE PANIZZA BOVÉ, 1951, Associate Professor of Italian  
Dott. in Lett. e Filos, Rome

JOSEPH GERARD BRENNAN, 1947, Associate Professor of Philosophy

A.B., Boston College; A.M., Harvard; Ph.D., Columbia

LE ROY BREUNIG, 1953, Professor of French

A.B., DePauw; Ph.D., Cornell

SIDNEY A. BURRELL, 1947, Associate Professor of History

A.B., Chicago; Ph.D., Columbia

---

The dates refer to the beginning of service in the College and not necessarily to  
the assumption of the current title.

<sup>1</sup> Absent on leave, 1960-61.



## THE FACULTY

<sup>2</sup>MARIANNA BYRAM, 1926, Assistant Professor of Fine Arts  
A.B., Barnard; A.M., Radcliffe

BARBARA S. CANNELL, 1957, Assistant Professor of Psychology  
A.B., Nebraska; A.M., Columbia

ANN CHOWNING, 1958, Assistant Professor of Anthropology  
A.B., Bryn Mawr; A.M., Ph.D., Pennsylvania

ROSALIE COLIE, 1960, Visiting Associate Professor in the Humanities  
A.B., Vassar; A.M., Ph.D., Columbia

<sup>1</sup>WILLIAM A. CORPE, 1956, Associate Professor of Botany  
A.B., A.M., Wisconsin; Ph.D., Pennsylvania State

ELIZABETH CZONICZER, 1952, Assistant Professor of Italian  
Asolut., Budapest; A.M., Chicago; Ph.D., Columbia

MARGARITA U. DA CAL, 1943, Associate Professor of Spanish  
Bach., Instituto-Escuela de Madrid; A.M., Ph.D., Columbia

LOUISE ELLIOTT DALBY, 1956, Assistant Professor of History  
B.S., A.M., Nebraska; Ph.D., Radcliffe

JOHN DAY, 1931, Professor of Greek and Latin  
A.B., Ohio State; Ph.D., Johns Hopkins

TAMARA DAYKARHANOVA, 1958, Adjunct Assistant Professor of English  
Moscow Art Theatre School; University of Moscow

INGRITH J. DEYRUP, 1947, Professor of Zoology  
A.B., Barnard; Ph.D., Columbia

HUBERT DORIS, 1957, Assistant Professor of Music  
A.B., Harvard; A.M., Columbia

<sup>2</sup>CLARA ELIOT, 1920, Associate Professor of Economics  
A.B., Reed; Ph.D., Columbia

GEORGE P. ELLIOTT, 1957, Assistant Professor of English  
A.B., A.M., California

JOANNE ELLIOTT, 1955, Associate Professor of Mathematics  
A.B., Pembroke; A.M., Ph.D., Cornell

<sup>1</sup>EUGENIO FLORIT, 1945, Professor of Spanish  
D. en D., Havana

---

<sup>1</sup> Joint appointment with Columbia.

<sup>2</sup> Absent on leave, 1960-61.



## BARNARD COLLEGE

RENÉE CLAIRE FOX, 1955, Assistant Professor of Sociology  
A.B., Smith; Ph.D., Radcliffe

LAURA R. DE GARCÍA-LORCA, 1948, Assistant Professor of Spanish  
Lic. en F., Madrid; Ph.D., Columbia

MARION HAMILTON GILLIM, 1952, Associate Professor of Economics  
A.B., Mount Holyoke; A.M., Ph.D., Columbia

<sup>1</sup>AUBREY GORBMAN, 1946, Professor of Zoology  
A.B., M.S., Wayne; Ph.D., California

TATIANA GREENE, 1946, Assistant Professor of French  
Candid. en Phil. et Lettres, Brussels; A.M., Ph.D., Columbia

W. CABELL GREET, 1926, McIntosh Professor of English  
A.B., University of the South; A.M., Ph.D., Columbia

VIRGINIA D. HARRINGTON, 1942, Associate Professor of History  
A.B., Barnard; A.M., Ph.D., Columbia

JULIUS S. HELD, 1937, Professor of Fine Arts  
Ph.D., Freiburg

MARGARET HOLLAND, 1926, Associate Professor of Physical Education  
B.S., A.M., Columbia

LUCYLE HOOK, 1949, Associate Professor of English  
A.B., B.S., Texas State College; A.M., Columbia; Ph.D., New York

ALEX INKELES, 1960, Visiting Professor of Sociology  
A.B., A.M., Cornell; Ph.D., Columbia

JUDITH JARVIS, 1956, Assistant Professor of Philosophy  
A.B., Barnard; M.A., Cambridge; Ph.D., Columbia

<sup>1</sup>TRACY S. KENDLER, 1954, Associate Professor of Psychology  
A.B., Brooklyn; A.M., Ph.D., State University of Iowa

EDWARD J. KING, 1946, Professor of Chemistry  
A.B., State University of Iowa; Ph.D., Yale

RENÉE J. KOHN, 1952, Assistant Professor of French  
Lic. ès Lettres, Grenoble; Agrégée de l'Université, Sorbonne

MIRRA KOMAROVSKY, 1934, Professor of Sociology  
A.B., Barnard; A.M., Ph.D., Columbia

---

<sup>1</sup> Absent on leave, 1960-61.



## THE FACULTY

- <sup>3</sup>JOHN KOUWENHOVEN, 1946, Professor of English  
A.B., Wesleyan; A.M., Ph.D., Columbia
- MARION LAWRENCE, 1929, Professor of Fine Arts  
A.B., Bryn Mawr; A.M., Ph.D., Radcliffe
- ROBERT LEKACHMAN, 1947, Associate Professor of Economics  
A.B., Ph.D., Columbia
- EDGAR R. LORCH, 1937, Professor of Mathematics  
A.B., Ph.D., Columbia
- OTTO LUENING, 1944, Professor of Music on the Joline Foundation  
Royal Academy of Music, Munich; University of Zurich
- CATHARINE MC CLELLAN, 1956, Assistant Professor of Anthropology  
A.B., Bryn Mawr; Ph.D., California
- LORNA F. MC GUIRE, 1935, Associate Professor of English  
A.B., Connecticut; A.M., Ph.D., Radcliffe
- <sup>1</sup>JANE G. MAHLER, 1935, Associate Professor of Fine Arts  
A.B., Wisconsin; A.M., Ph.D., Columbia
- JOHN MESKILL, 1960, Assistant Professor of Chinese and Japanese  
A.B., Harvard; Ph.D., Columbia
- <sup>2</sup>ANDRÉ MESNARD, 1936, Associate Professor of French  
A.B., A.M., Columbia
- GLADYS MEYER, 1948, Associate Professor of Sociology  
A.B., Wellesley; Ph.D., Columbia
- DOUGLAS STUART MOORE, 1928, MacDowell Professor of Music  
A.B., Yale; Mus.D., Rochester
- <sup>1</sup>JOHN A. MOORE, 1943, Professor of Zoology  
A.B., A.M., Ph.D., Columbia
- PHOEBE MORRISON, 1952, Professor of Government  
A.B., Vassar; LL.B., George Washington; J.S.D., Yale
- MILTON C. NAHM, 1960, Visiting Professor of Philosophy  
A.B., A.M., Ph.D., Pennsylvania; B.A., B. Litt., Oxford
- URSULA M. NIEBUHR, 1940, Associate Professor of Religion  
B.A., M.A., Oxford; S.T.M., Union Theological Seminary

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<sup>1</sup> Joint appointment with Columbia.

<sup>2</sup> Absent on leave, Autumn Term.

<sup>3</sup> Absent on leave, 1960-61.

## BARNARD COLLEGE

- RICHARD A. NORMAN, 1954, Assistant Professor of English  
A.B., George Washington; A.M., Ph.D., Columbia
- BARBARA NOVAK, 1958, Assistant Professor of Fine Arts  
A.B., Barnard; A.M., Ph.D., Radcliffe
- REGINA T. O'BRIEN, 1960, Visiting Assistant Professor of Zoology  
B.S., William and Mary; Ph.D., Columbia
- REMINGTON P. PATTERSON, 1955, Assistant Professor of English  
A.B., A.M., Ph.D., Yale
- THOMAS P. PEARDON, 1923, Professor of Government  
B.A., British Columbia; A.M., Clark; Ph.D., Columbia
- ROSEMARY PIERREL, 1955, Associate Professor of Psychology  
A.B., A.M., Boston; Ph.D., Brown
- JEAN A. POTTER, 1952, Assistant Professor of Philosophy  
A.B., Bryn Mawr; A.M., Radcliffe; Ph.D., Yale
- <sup>2</sup>BASIL RAUCH, 1941, Professor of History  
A.B., Notre Dame; Ph.D., Columbia
- AMELIA A. DE DEL RÍO, 1930, Professor of Spanish  
A.B., Vassar; A.M., Columbia; Ph.D., Madrid
- DONALD D. RITCHIE, 1948, Associate Professor of Botany  
A.B., B.S., Furman; A.M., Ph.D., North Carolina
- <sup>1</sup>DAVID A. ROBERTSON, JR., 1940, Professor of English  
A.B., A.M., Ph.D., Princeton
- ELEANOR ROSENBERG, 1953, Professor of English  
A.B., Barnard; A.M., Ph.D., Columbia
- <sup>2</sup>RAYMOND J. SAULNIER, 1938, Professor of Economics  
B.S., Middlebury; A.M., Tufts; Ph.D., Columbia
- WILLY SCHUMANN, 1955, Assistant Professor of German  
A.B., A.M., Southern Methodist; Ph.D., Columbia
- HENRY S. SHARP, 1941, Professor of Geology  
A.B., Cornell; A.M., Ph.D., Columbia
- JOHN GILMOUR SHERMAN, 1958, Assistant Professor of Psychology  
A.B., Bowdoin; A.M., Ph.D., Columbia
- <sup>1</sup>LOUISE G. STABENAU, 1925, Assistant Professor of German  
Abitur, Bremen; A.M., Columbia

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<sup>1</sup> Absent on leave, Autumn Term.

<sup>2</sup> Absent on leave, 1960-61.



## THE FACULTY

- EMMA DIETZ STECHER, 1945, Professor of Chemistry  
A.B., Barnard; A.M., Columbia; Ph.D., Bryn Mawr
- MARION STRENG, 1930, Associate Professor of Physical Education  
B.S., Wisconsin; A.M., Columbia
- HOWARD M. TEICHMANN, 1946, Adjunct Assistant Professor of English  
A.B., Wisconsin
- <sup>1</sup>H. STANDISH THAYER, 1954, Assistant Professor of Philosophy  
A.B., Bard; A.M., Ph.D., Columbia
- THOMAS TIGHE, 1958, Assistant Professor of Psychology  
A.B., Trinity; Ph.D., Cornell
- ELEANOR M. TILTON, 1950, Professor of English  
A.B., Mount Holyoke; A.M., Boston; Ph.D., Columbia
- GLORIA TORALBALLA, 1958, Assistant Professor of Chemistry  
B.S., Philippines; Ph.D., Michigan
- BARRY ULANOV, 1951, Associate Professor of English  
A.B., Ph.D., Columbia
- CHILTON WILLIAMSON, 1948, Associate Professor of History  
A.B., A.M., Ph.D., Columbia
- FERN W. YATES, 1927, Assistant Professor of Physical Education  
A.B., Barnard; A.M., Columbia
- RICHARD PARDEE YOUTZ, 1940, Professor of Psychology  
A.B., Carleton; Ph.D., Yale
- LEONARD ZOBLER, 1955, Associate Professor of Geography  
B.S., M.S., State College of Washington; Ph.D., Columbia
- FORREST L. ABBOTT, 1953, Treasurer and Controller  
B.S., Southwest Missouri State Teachers; A.M., Ed.D., Columbia
- ESTHER GREENE, 1944, Librarian  
A.B., Grinnell; B.S., Simmons
- MARJORY J. NELSON, 1948, College Physician  
A.B., Barnard; M.D., Cornell
- JEAN T. PALMER, 1946, General Secretary  
A.B., Bryn Mawr

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<sup>1</sup> Absent on leave, 1960-61.

## BARNARD COLLEGE

SARAH KATHARINE THOMSON, 1955, Reference Librarian  
A.B., Agnes Scott; M.S., Columbia

## FACULTY EMERITI

VIRGINIA C. GILDERSLEEVE, 1900-1947, Dean Emeritus  
Ph.D., LL.D., Litt.D., L.H.D.

IDA H. OGILVIE, 1906-1941, Professor Emeritus of Geology  
Ph.D.

WILLIAM T. BREWSTER, 1897-1943, Professor Emeritus of English  
A.M., Litt.D.

GERTRUDE M. HIRST, 1901-1943, Professor Emeritus of Greek and Latin  
Ph.D., M.A. (Cantab.)

MARIE REIMER, 1903-1945, Professor Emeritus of Chemistry  
Ph.D.

MARGUERITE MESPOULET, 1934-1947, Professor Emeritus of French  
Agrégée de l'Université

MINOR W. LATHAM, 1914-1948, Professor Emeritus of English  
Ph.D.

WILLIAM HALLER, 1909-1950, Professor Emeritus of English  
Ph.D., L.H.D.

FLORENCE DE LOISELLE LOWTHER, 1914-1950, Professor Emeritus of  
Zoology, Ph.D.

ELIZABETH FAULKNER BAKER, 1919-1952, Professor Emeritus of  
Economics, Ph.D.

HUGH WILEY PUCKETT, 1916-1953, Professor Emeritus of German  
Ph.D.

## OTHER OFFICERS OF INSTRUCTION

JOY ARDZROONI, 1959, Assistant in Psychology  
A.B., Stanford

<sup>1</sup>LUCENA J. BARTH, 1955, Lecturer in Zoology  
A.B., A.M., Missouri; Ph.D., Columbia

---

<sup>1</sup> Absent on leave, Spring Term.



## THE FACULTY

- ANNETTE KAR BAXTER, 1952, Lecturer in History  
A.B., Barnard; A.M., Smith; A.M., Radcliffe; Ph.D., Brown
- PHYLLIS M. BIGEL, 1957, Instructor in Physical Education  
B.S., Brooklyn; M.S., Illinois
- VIVIAN J. BIGOTTO, 1957, Assistant in Psychology  
A.B., Hunter; A.M., Columbia
- HARRIET T. BJELOVUCIC, 1959, Lecturer in History  
A.B., Barnard; A.M., Columbia
- ELIZABETH BLAKE, 1956, Instructor in French and Supervisor of Language  
Laboratory  
A.B., Barnard; A.M., Middlebury
- LEA K. BLEYMAN, 1959, Assistant in Zoology  
A.B., Brandeis
- HELEN M. CARLSON, 1942, Associate in French  
A.B., Grinnell; A.M., Columbia
- ERIKA H. CASLER, 1960, Assistant in Zoology  
A.B., College of the City of New York
- ELIZABETH LOUISE CAUGHRAN, 1956, Instructor in English  
A.B., Russell Sage; A.M., Columbia
- DORIS CELLARIUS, 1960, Assistant in Zoology  
A.B., Reed
- GENEVIEVE CHINN, 1958, Instructor in Music  
B.S., A.M., Columbia
- ELIZABETH CONSTANTINIDES, 1959, Lecturer in Latin  
A.B., Barnard; A.M., Columbia
- CATHERINE N. COULTER, 1959, Lecturer in Russian  
A.B., Barnard
- BARBARA M. CROSS, 1959, Lecturer in English  
A.B., Smith; A.M., Yale; Ph.D., Radcliffe
- JULIANA CUYLER, 1957, Studio Assistant in Fine Arts  
A.B., Wellesley
- MARJORIE HOUSEPIAN DOBKIN, 1957-59; 1960, Lecturer in English  
A.B., Barnard

## BARNARD COLLEGE

PATRICIA L. DUDLEY, 1959, Instructor in Zoology  
A.B., A.M., Colorado; Ph.D., Washington

JIRINA M. EMERSON, 1958, Lecturer in Government  
A.B., Bryn Mawr

MARIA TERESA ESCOBAL, 1946, Lecturer in Spanish  
Bach., Colegio de la Enseñanza

JANICE FARRAR, 1956, Lecturer in English  
A.B., Barnard; A.M., Columbia

JOAN FERRANTE, 1960, Assistant in Italian  
A.B., Barnard; A.M., Columbia

JAMES A. FOWLER, 1959, Instructor in Zoology  
B.S.E., Princeton; A.M., Columbia

BARBARA FRIEDMAN, 1959, Assistant in Music  
A.B., Barnard

RENÉE GEEN, 1956, Instructor in French  
A.B., Brooklyn; A.M., Wisconsin

IRENE L. GENDZIER, 1958, Lecturer in History  
A.B., Barnard

EDITH D. GENTRY, 1956, Associate in Physical Education  
B.S., Winthrop; M.S., Louisiana State

EVA W. GRAY, 1959, Instructor in Mathematics  
Ph.D., Zurich

DANIEL GREENBERG, 1959, Instructor in Physics  
B.S., Hebrew University; A.M., Ph.D., Columbia

MARGARET HANCE, 1955, Assistant in English  
A.B., Wittenberg

ANTOINETTE NOEL HOFFHERR, 1950, Lecturer in French  
Bach., Sorbonne; A.B., Ohio Wesleyan; A.M., Ohio State

TERENCE K. HOPKINS, 1959, Lecturer in Sociology  
A.B., New York; A.M., Columbia

URSULA LIEBRECHT JARVIS, Instructor in German  
A.B., Barnard; A.M., Columbia

LYDIA KESICH, 1959, Lecturer in Russian  
A.B., Vassar; A.M., Columbia



## THE FACULTY

JIMMYE ELIZABETH KIMMEY, 1956, Lecturer in Government  
A.B., Texas; A.M., Columbia

RUTH MONTGOMERY KIVETTE, 1952, Lecturer in English  
A.B., Barnard, A.M., Columbia; B.D., Union Theological Seminary

CAROL S. KLEIN, 1960, Lecturer in Chemistry  
A.B., Barnard

MARCUS KLEIN, 1952, Instructor in English  
A.B., Western Reserve; A.M., Columbia

JANE LANCASTER, 1954, Instructor in Geology  
A.B., Barnard; A.M., Columbia

JULIA LOOMIS, 1958, Lecturer in Greek and Latin  
A.B., Randolph Macon; A.M., Columbia

JOAN KRAMER LUBOWE, 1960, Assistant in Geology  
A.B., Barnard

JOSEPHINE MAYER, 1956, Associate in Education and Director of the  
Teaching Programs  
B.S., A.M., Columbia

JOANN RYAN MORSE, 1957, Instructor in English  
A.B., Vassar; A.M., Yale

CHARLOTTE W. MUNDY, 1958, Instructor in Education  
A.B., Wisconsin; A.M., Columbia

INEZ G. NELBACH, 1948, Associate in English  
A.B., Barnard; A.M., Columbia

JAMES R. O'CONNOR, 1958, Instructor in Economics  
B.S., Columbia

ROBERT PACK, 1957, Instructor in English  
A.B., Dartmouth; A.M., Columbia

MARION R. PHILIPS, 1945-55; 1958, Instructor in Physical Education  
A.B., Hunter; A.M., Columbia

ANNE LAKE PRESCOTT, 1959, Assistant in English  
A.B., Barnard

FRANCIS RANDALL, 1959, Instuctor in History  
A.B., Amherst; A.M., Columbia

## BARNARD COLLEGE

BARBARA STREET RAY, 1958, Assistant in Psychology  
A.B., Barnard

KATHLEEN T. RIORDAN, 1959, Assistant in Psychology  
A.B., Barnard

PHYLLIS RUBIN, 1958, Lecturer in Mathematics  
A.B., Barnard; A.M., Ohio State

GERTRUD M. SAKRAWA, 1952, Associate in German  
A.M., Columbia; Ph.D., Vienna

JEANNE SCHNEEBAUM, 1960, Assistant in Zoology  
A.B., New York

BERNICE SEGAL, 1958, Lecturer in Chemistry  
A.B., Radcliffe; Ph.D., Columbia

HEATHER M. SHAPIRO, 1959, Assistant in Economics  
A.B., McMaster

JUNE SHAW, 1959, Assistant in Botany  
B.S., London

THEODORA SHPIZ, 1959, Assistant in Physics  
A.B., Brooklyn

ELIZABETH STABLER, 1959, Lecturer in Government  
A.B., Barnard; M.I.A., Columbia

HAROLD STAHLER, 1957, Instructor in Religion  
A.B., Dartmouth; B.D., Union Theological Seminary

JANIS STOCKMAN, 1959, Instructor in Physical Education  
B.S., Wisconsin

ADOLPHUS J. SWEET, 1949, Director of the Minor Latham Playhouse  
A.B., A.M., Columbia

DONNA TAYLOR, 1959, Assistant in Anthropology  
B.S., Columbia

PATRICIA TERRY, 1958, Lecturer in French  
A.B., Wellesley; A.M., Ph.D., Columbia

ZOYA A. TRIFUNOVICH, 1959, Lecturer in Russian  
B.S., Columbia

PHEBE VAN VALEN, 1959, Assistant in Zoology  
B.S., William and Mary; A.M., Columbia



## THE FACULTY

ROSELIN WAGNER, 1959, Lecturer in Chemistry  
A.B., Barnard; M.S., New York; Ph.D., Columbia

ANNE B. WEINSHENKER, 1959, Lecturer in Fine Arts  
A.B., Barnard

ALICE WIGOD, 1958, Assistant in Psychology  
A.B., Barnard

## OFFICERS OF COLUMBIA UNIVERSITY GIVING COURSES LISTED IN THIS ANNOUNCEMENT

EDWARD F. ASSMUS, JR., Ph.D., Instructor in Mathematics

WM. THEODORE DE BARY, Ph.D., Associate Professor of Chinese and  
Japanese

HYMAN BASS, Ph.D., Instructor in Mathematics

JACK BEESON, M.M., Associate Professor of Music

CHARLES H. BEHRE, JR., Ph.D., Professor of Geology

ROBERT L. BELKNAP, A.M., Instructor in Russian

FRED BRONNER, A.M., Instructor in History

RUTH L. BUNZEL, Ph.D., Lecturer in Anthropology

WILLIAM M. CALDER, III, Ph.D., Instructor in Greek and Latin

JAMES L. CLIFFORD, Ph.D., Professor of English

HAROLD C. CONKLIN, Ph.D., Assistant Professor of Anthropology

LEONARDO C. DE MORELOS, Ph.D., Associate Professor of Spanish

GEORGE DEVEREUX, Ph.D., Lecturer in Anthropology

GORDON F. EKHOLM, Ph.D., Lecturer in Anthropology

AINSLIE T. EMBREE, A.M., Instructor in Indian History

RHODES W. FAIRBRIDGE, Ph.D., Professor of Geology

GERALD FEINBERG, Ph.D., Associate Professor of Physics

HENRY M. FOLEY, Ph.D., Professor of Physics

MORTON H. FRIED, Ph.D., Associate Professor of Anthropology

THEODOR H. GASTER, Ph.D., Adjunct Professor of Religion

DANIEL E. GERSHENSON, B.H.L., Instructor in Greek and Latin

JOHN W. GRAY, Ph.D., Instructor in Mathematics

MOSES HADAS, Ph.D., Jay Professor of Greek

WILLIAM A. HANCE, Ph.D., Professor of Economic Geography

MARVIN HARRIS, Ph.D., Assistant Professor of Anthropology

CHRISTOPHER HATCH, A.M., Instructor in Music

## BARNARD COLLEGE

LUCY J. HAYNER, Ph.D., Associate Professor of Physics

JANE E. HENLE, Ph.D., Lecturer in Fine Arts

GILBERT HIGHET, D.Litt.,

    Anthon Professor of the Latin Language and Literature

RALPH J. HOLMES, Ph.D., Associate Professor of Geology

RICHARD V. KADISON, Ph.D., Professor of Mathematics

CHARLES H. KAHN, Ph.D., Assistant Professor of Greek and Latin

SAMUEL Z. KLAUSNER, Ed.D., Lecturer in Religion

JOHN M. KRUMM, B.D., Ph.D., Chaplain of the University

POLYKARP KUSCH, Ph.D., Professor of Physics

LEON M. LEDERMAN, Ph.D., Professor of Physics

BERT M-P. LEEFMANS, Ph.D., Associate Professor of French

EDWARD R. LERNER, Ph.D., Assistant Professor of Music

HOWARD LEVI, Ph.D., Associate Professor of Mathematics

MAAN Z. MADINA, Ph.D., Assistant Professor of Modern Arabic

RUFUS W. MATHEWSON, JR., Ph.D., Associate Professor of Russian

MARGARET MEAD, Ph.D., Adjunct Professor of Anthropology

ELLIOTT MENDELSON, Ph.D., Instructor in Mathematics

WILLIAM J. MITCHELL, A.M., Professor of Music

DOUGLAS STUART MOORE, Mus.D., McDowell Professor of Music

A. M. NAGLER, Ph.D., Visiting Professor of Theatre History

JACOB NEUSNER, A.B., Instructor in Religion

JOEL NEWMAN, A.M., Instructor in Music

JOHN E. ORCHARD, Ph.D., Professor of Economic Geography

HERMAN F. OTTE, Ph.D., Professor of Economic Geography

WILHELM PAUCK, Th.D., Adjunct Professor of Religion

JEANNE VARNEY PLEASANTS, D.d'Univ., Professor of French

HOWARD N. PORTER, Ph.D., Associate Professor of Greek and Latin

SHIRLEY L. QUIMBY, Ph.D., Professor of Physics

GREGORY L. RABASSA, Ph.D., Assistant Professor of Spanish

FRANKLIN C. D. REEVE, Ph.D., Assistant Professor of Russian

HERBERT E. ROBBINS, Ph.D., Professor of Mathematics

ALLAN M. SACHS, Ph.D., Associate Professor of Physics

ALAN SCHNEIDER, A.M., Lecturer in Dramatic Arts

F. MARK SIEBERT, A.M., Instructor in Music

MORTON SMITH, Ph.D., Associate Professor of History

PAUL A. SMITH, Ph.D., Professor of Mathematics

DUNCAN STRONG, Ph.D., Loubat Professor of American Archaeology

THOMAS A. SUITS, Ph.D., Instructor in Greek and Latin



## OFFICERS OF ADMINISTRATION

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SUSAN TAUBES, Ph.D., Associate in Religion  
RUDOLPH THOMAS, A.B., Associate in Music  
ROYAL WEILER, Ph.D., Assistant Professor of Sanskrit  
PETER WESTERGAARD, M.F.A., Instructor in Music  
CHIEN SHIUNG WU, Ph.D., Professor of Physics  
ANTON ZIGMUND, Ec. Nat. Langues Orientales Dip.,  
Assistant Professor of Religion

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MILLICENT CAREY MC INTOSH, Ph.D., LL.D., Litt.D., L.H.D.  
President of Barnard College and Dean in the University  
HENRY A. BOORSE, Ph.D. Dean of the Faculty and Professor of Physics  
HELEN PHELPS BAILEY, Ph.D.  
Dean of Studies and Associate Professor of French  
JEAN T. PALMER, A.B. General Secretary  
FORREST L. ABBOTT, Ed.D. Treasurer and Controller

### OFFICE OF THE PRESIDENT

MADELEINE PROVINZANO, A.M. Executive Secretary

### OFFICE OF THE DEANS

INEZ NELBACH, A.M. Adviser to the Class of 1961 and Associate in English  
ANNETTE KAR BAXTER, Ph.D. Adviser to the Class of 1962 and Lecturer in History  
RUTH MONTGOMERY KIVETTE, A.M. Adviser to the Class of 1963 and Lecturer in English  
NAME TO BE ANNOUNCED Adviser to the Class of 1964

DOROTHY E. FOX, A.B. Adviser to Foreign Students and Assistant to the Dean of the Faculty

### ADMISSIONS

HELEN M. MC CANN, A.B. Director  
MARGARET DYKES DAYTON, A.M. Associate Director

# BARNARD COLLEGE

## ASSOCIATE ALUMNAE

MARY A. BLISS, A.B.

Executive Secretary

## BURSAR

FRANCES A. BARRY, M.S.

Bursar

## CHAPLAIN OF THE UNIVERSITY

JOHN M. KRUMM, Ph.D., B.D.

## COLLEGE ACTIVITIES

KATHERINE R. GOODWIN, B.S.

Director

## DEVELOPMENT OFFICE

JEAN T. PALMER, A.B.

Director

DOROTHY COYNE WEINBERGER, A.B.

Assistant to the Director

## FOOD SERVICES

ELEANOR R. SMITH, B.S.

Director

## HEALTH

MARJORY J. NELSON, M.D.

College Physician

A. LOUISE BRUSH, M.D.

Consulting Psychiatrist

ELIZABETH MATHEWSON, R.N.

Nurse

LELA ANDERSON, R.N.

Nurse

CARL R. WISE, M.D.

University Medical Officer

## LIBRARY

ESTHER GREENE, A.B., B.S.

Librarian

THUSNELDA BRETTMAN

Assistant Librarian

SARAH KATHARINE THOMSON, M.S.

Reference Librarian

NATALIE SONEVYTSKY, M.S.

Assistant Reference Librarian

MARY J. KELLY, M.S.

Order Librarian

HELEN ADLER, M.S.

Reserve Librarian

EDWARD KAPLAN, M.S.

Assistant Reference and  
Circulation Librarian

## MAINTENANCE AND OPERATIONS

JOHN KIESSLING

Manager



## OFFICERS OF ADMINISTRATION

### PLACEMENT

ETHEL S. PALEY, A.B.	Director
LEONORE POCKMAN, A.B.	Assistant Director

### PUBLIC RELATIONS

BETTY PEZZONI, A.B.	Director
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### PURCHASING

MARY BANE	Manager
-----------	---------

### REGISTRAR

HELEN LAW, A.B.	Registrar
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### RESIDENCE

JANE SHIPTON, A.M.	Director
INGRID OTTEN, A.M.	Assistant Director

## II. An Introduction to the College

### BARNARD'S BEGINNING

Many colleges begin with something tangible: a gift of buildings, a tract of land, or an endowment. Barnard College began with nothing except the idea of equal education for women.

The man who went far in making this idea a reality was President Frederick A. P. Barnard of Columbia University. As early as 1879, he expressed his conviction that "in the interests of society the mental culture of women should be not inferior in character to that of men." His idea at first "failed to attract the serious attention of the trustees, who doubted whether the female brain could stand the strain of a rigorous college course."

After years of work on the part of dedicated New York women who became a "persistent set of agitators," a resolution was finally passed by the Columbia Board of Trustees on April 1, 1889, establishing a separate college for women with responsibility for its own governing body, faculty, and finances. In October 1889 the first class of Barnard College met in a rented house at 343 Madison Avenue, with seven instructors selected from the Columbia faculty, fourteen students enrolled in the School of Arts, and twelve special students in science. Nine years later the College moved to its present site on Morningside Heights, and in 1900 it was incorporated in the educational system of the University.

Since 1900 additional land and buildings have been acquired by Barnard until now the College occupies the entire area between 116th and 120th Streets, bounded by Broadway and Claremont Avenue, one block east of Riverside Park and the Hudson River. Currently the College owns equipment, buildings and grounds with a book value of \$7,690,000 and holds endowment funds totalling \$10,073,000.

### BARNARD TODAY

Barnard today retains its identity as an independent college for women, with a faculty, president, and trustees of its own, and responsibility for its financial operation. At the same time it shares the instruction, the libraries, and the climate of research of a great university. The degree of Bachelor of Arts is conferred upon the graduates of Barnard by Columbia University.

The curriculum offers to undergraduates an opportunity to cultivate



## AN INTRODUCTION TO THE COLLEGE

the liberal arts in an atmosphere which is both scholarly and cosmopolitan. Specific requirements for the degree are designed to provide knowledge of the different areas of human thought and their interrelationship. Two years' work in the humanities bring the student in contact with literature and such fields as philosophy, religion, music, or the fine arts. A year's work in history is required, as well as a course dealing with some phase of contemporary society. Acquaintance with the ideas and methods of contemporary physical and biological science is considered essential for an informed person in the modern world and one year's work in each of these areas must be elected. Finally, a demonstration of competence in at least one foreign language completes the curriculum required of all students. To assist her in developing her course of study, each student is assigned to a class adviser who follows her work throughout the four years.

At the end of the sophomore year, every student elects a major field of study which she pursues through advanced courses, seminars and independent reading. In this work she is guided by a major adviser who is one of the faculty members in her chosen field. Students may choose among twenty-two departments, or may elect an interdepartmental major such as American Studies or Foreign Areas Studies. In addition, there are special programs in Education and Drama, which are undertaken in conjunction with a major in another subject.

Barnard has a faculty and teaching staff of some 150 men and women, including part-time instructors who come to the campus from the world of literature, the theatre, and the arts. In addition, members of the University faculty also give instruction at the College.

Some undergraduate classes are held with Columbia College, and the music, religion, physics, mathematics, and classics departments are joint departments with Columbia. Graduate courses are also open to qualified seniors. Classes vary in size depending on the subject, ranging from fewer than ten students to large lecture sections. For the latter, personal or small group conferences are often used to supplement lectures.

### THE CAMPUS

The campus occupies four acres of land adjacent to Columbia, between 116th and 120th Streets on Morningside Heights. The residence halls, Brooks and Hewitt, face two sides of an open quadrangle. Milbank Hall, at the north of the campus, contains classrooms and administrative offices, as well as the science laboratories and their departmental

## BARNARD COLLEGE

libraries, a greenhouse for the use of botany students, the Minor Latham Drama Workshop, and penthouse studios and practice rooms for the music department. Barnard Hall houses the gymnasium and swimming pool, the dance studio, English seminar and classrooms, a spacious social center known as the James Room, and the Annex which has a lounge, snack bar, and quarters for student organizations.

Adele Lehman Hall, the new five-story building containing the Wollman Memorial Library and classrooms, was opened in the fall of 1959. The Library was designed to provide expanded reference, periodical, and reserve book services and to permit greater opportunities for independent work in advanced courses. It contains a record collection with ample listening facilities, an audio-visual room, and a room for the display of fine arts material. The open-shelf arrangement, occupying three and a half floors, has a capacity of 150,000 volumes. Barnard undergraduates also have access to the 3,000,000 volumes in the Columbia University libraries. Carrels are provided for individual study and there are small rooms for typing and for group discussion.

The top floor of Adele Lehman Hall contains classrooms and the offices and seminars of the social science departments. A thirty-booth language laboratory and additional classrooms occupy the ground floor.

### STUDENT LIFE

The student body of 1400 young women is chosen from all types of schools, independent and public, representing nearly every state in the Union and thirty foreign countries. This diversity of background finds expression in the life of the college community.

Extra-curricular activities are sponsored by the Undergraduate Association and reflect the interests of the entire group. A committee of students from Barnard and Columbia College jointly plan the social program of the two colleges. Dramatic organizations, the Columbia radio station, the University Chorus and Orchestra, and the Gilbert and Sullivan Society are among the activities which provide an opportunity for members of the two undergraduate colleges to work together.

The Undergraduate Association takes wide responsibilities in the college community. The Association is represented on important college committees, such as the Council on Development and the Assemblies Committee. An undergraduate Curriculum Committee consults with the Faculty Committee on Instruction, and from time to time makes recommendations. The Honor Board administers an honor code under which



## AN INTRODUCTION TO THE COLLEGE

all students agree to maintain a high standard of honor in examinations and in other phases of college life.

Religious organizations and activities, with headquarters on the Columbia campus in Earl Hall, are open to all students, and the Thursday Noon Meeting at Barnard provides a weekly forum in which students discuss contemporary religious and philosophical thought with faculty and guest speakers. The devotional life of College and University is centered in St. Paul's Chapel, where week-day and Sunday services are held, at which attendance is voluntary. Through the cooperation of the Chaplain and counselors of various faiths a unity of religious life is secured within the University, while within each faith its own traditions are maintained.

The Athletic Association sponsors many campus activities, such as tennis, basket-ball, water ballet, fencing, and modern dance, and inter-collegiate Sports Days throughout the year enable students to participate in athletic events with other colleges. In 1933 the Barnard Camp was purchased by the alumnae, twenty acres of wooded land in Westchester County, providing an ideal site for country week-ends and recreation.

All matters which pertain to health are in the charge of the College Physician, who is assisted by a psychiatrist and two nurses. Medical examinations at regular intervals are obligatory and resident students and non-resident students not living with family or relatives are required to subscribe to the University's Medical Plan (see page 147).

### A UNIVERSITY COLLEGE

Barnard shares the long tradition of Columbia University, which was founded as King's College by royal charter in 1754. It shares also the unlimited resources of New York City. Nicholas Murray Butler, one of Columbia's great presidents, observed, "New York is intensely cosmopolitan, and contact with its life for a short time during the impressionableness of youth is in itself a liberal education." Barnard is a university college in an international city, and today the curriculum affirms and encourages the precise and graphic use of its vast educational laboratory.

### III. Admission

The Committee on Admissions selects for Barnard those candidates who show evidence of intellectual ability, sound character, and good health. Along with the past record of academic achievement, promise of good citizenship is important. In addition, the College believes it desirable that the college experience be shared by students representing a wide variety of schools, many parts of the United States, and foreign countries.

Candidates wishing to talk over their plans may arrange with the Office of Admissions for an interview at the College in the fall of their senior year at secondary school or during their junior year, except during the period from April 1 to June 1. Whenever possible, the Office of Admissions will be glad to arrange interviews with alumnae for those students who are unable to visit the College.

#### ADMISSION TO THE FRESHMAN CLASS

Application for admission to the freshman class should be made before February 15 of the year of entrance. It is more desirable, however, to apply by the end of the junior year or the fall of the senior year. Application forms may be obtained by writing to the Director of Admissions.

A non-refundable fee of \$15 must accompany each application.

Students are admitted to the freshman class in September of each academic year. They should be at least fifteen years of age. They must present the following credentials:

- 1) Evidence of good character, which is obtained from confidential reports from the applicant's secondary school principal and teachers and, if possible, through a personal interview with a member of the staff of the Office of Admissions.
- 2) Evidence of sound health, which should be submitted as soon as the applicant has been accepted, on forms provided by the Office of Admissions.
- 3) Evidence of intellectual ability and achievement, which is reported by the secondary school to the College, and is also demonstrated by the required College Entrance Examination Board tests.

Specifically, a candidate for admission should be a graduate of an approved secondary school or should have equivalent education representing a four-year course of study. Academic requirements for admission are based on the requirements for the A.B., or liberal arts, degree. The secondary school course of study should include, therefore, four

years of work in English, three years in one foreign language and two in another, and college preparatory mathematics studied for two years. The remainder of the course should consist of work in history, science, mathematics, music, art, or additional work in language. For pre-medical students advanced work in science, mathematics and German is advised. Pre-engineering students should offer three years of social studies, two years of French or German, mathematics through solid geometry and trigonometry, physics and chemistry.

The Committee on Admissions is willing to consider the applications of students whose preparation may vary from the usual pattern but whose records give evidence of genuine intellectual ability and interest.

Every candidate for admission to the freshman class is required to take the College Entrance Examination Board scholastic aptitude test in January or March of her senior year in school and three scholastic achievement tests in March of her senior year. The latter must be taken in (1) English composition, (2) a foreign language, and (3) social studies, science or mathematics. January graduates may take the College Board tests in December of their senior year. The required aptitude and achievement tests should be taken only once in the senior year. If the scholastic aptitude test is taken for guidance purposes in the junior year, the scores should be reported to the College.

At either the December or the January administration of the College Entrance Examination Board tests candidates will be asked to write an essay, on a topic which will be assigned at that time by the Board, as evidence of their ability to write English clearly and accurately.

### EARLY DECISION PLAN

In order to alleviate some of the problems arising from multiple applications, Barnard, with the other members of the Seven College Conference, agreed, beginning with the class entering in September, 1959, to take action in the fall of the senior year on the applications of well-qualified students who have made their choice of a college by that time. Students wishing to apply under this early decision plan must be certified by their schools as having filed only one application.

Single-choice candidates for Barnard admission in September, 1961, should send their application to the Office of Admissions, Barnard College, New York 27, before October 15, 1960. Applications must be accompanied by the \$15 application fee.

Early in December Barnard will send to all single-choice applicants letters of admission, rejection, or, in doubtful cases, of postponement of decision until the regular date in May. Each applicant will be considered on the basis of (1) the recommendation of her school principal



## BARNARD COLLEGE

or guidance counselor; (2) her three-year record at school; and (3) the results of the required College Board scholastic aptitude test and the scholastic achievement tests taken in the junior year.

The admitted candidate will be expected to complete her senior year at school satisfactorily and to submit a record of that year's work. She will not be asked to repeat any College Board examinations. She will agree to pay to Barnard in February, 1961, a deposit of \$100 if she is to be a non-resident student, and \$150 if she is to be a resident student, to hold her place in the freshman class.

The candidate on whose application decision has been postponed will be given full and careful consideration in the spring. She will be asked to submit a record of her school work for the first half of her senior year, with the results of senior College Board scholastic aptitude and achievement tests as additional evidence.

Those candidates on whose applications favorable action has not been taken may file applications at other colleges on receiving the December notice from Barnard.

### THE COLLEGE ENTRANCE EXAMINATION BOARD TESTS

The College Entrance Examination Board will administer the following series of tests in 1960-61.

Saturday, December 3, 1960

Saturday, January 14, 1961<sup>1</sup>

Saturday, February 4, 1961<sup>1</sup>

Saturday, March 18, 1961

Saturday, May 20, 1961

Wednesday, August 9, 1961

Candidates should write directly to the College Entrance Examination Board, Box 592, Princeton, New Jersey, for the Bulletin of Information containing descriptions of the scholastic aptitude and achievement tests, directions for filing applications, and lists of examination centers. When requesting the application forms, candidates should state the month in which they wish to take the tests.

Residents of California, Oregon, Washington, Idaho, Montana, Wyoming, Utah, Colorado, Nevada, Arizona, New Mexico, Alaska, Hawaii, Australia, Mexico, and the Pacific Islands should write to the Pacific Coast Office of the Board, Box 27896, Los Angeles 27, California. In order to facilitate the arrangements for the conduct of the tests, all applications should be filed as early as possible. The normal closing date for the receipt of applications in Princeton, New Jersey, or Los Angeles, California, for candidates outside the United States, Hawaii,

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<sup>1</sup> The aptitude test only is administered on these dates.

ADMISSION

the Canal Zone, Canada, Mexico, and the West Indies is two months before the date of the examination; for all other candidates the closing date is four weeks before the date of the examination. A penalty fee of \$3 to accompany the application will be charged for applications received later than the normal closing date.

No applications received in Princeton or Los Angeles later than two weeks before the examination date will be considered. Candidates may not register for the tests at the examination centers. Each application should be accompanied by the appropriate examination fee:

Scholastic aptitude test alone.....	\$ 6.00
One, two, or three achievement tests.....	9.00

The Board will report the results of the tests to the institutions indicated on the candidates' applications. The colleges, in turn, will notify the candidates of the action taken on their applications for admission. Candidates will not receive reports of their tests from the Board.

ADMISSION WITH ADVANCED PLACEMENT

Students admitted to Barnard College who make satisfactory scores on College Board advanced placement tests and who have taken college-level course work in secondary school may be awarded up to six points of academic credit at the time of their admission.

ADMISSION TO ADVANCED STANDING

Candidates are admitted to advanced standing in September and February. They should have satisfactorily completed at least one year of work at an acceptable college or foreign institution of equivalent grade. In general, a candidate with a good record, transferring to Barnard from an institution of equal standing, will receive at Barnard a year's credit for a year's work at the institution from which she enters. (See also page 30.)

The student should submit with her formal application the following credentials: her secondary school record; a recommendation from her principal and her college dean or class adviser; a complete and official transcript of her college work and a copy of the college catalogue in which the courses she has taken are clearly marked; the results of the College Entrance Examination Board tests she has taken. A candidate for admission will be asked to take the College Entrance Examination Board scholastic aptitude test if she has not already done so. No definite credit for junior college work can be assigned until the student has had an opportunity to establish a satisfactory record at Barnard.

## BARNARD COLLEGE

In all cases, final action on admission depends upon the receipt of a statement of honorable dismissal, which is a certificate of good character from an authorized representative of her college, and the required health reports.

Application for admission to advanced standing should be submitted before July 1 for admission in September and before December 1 for admission in February. All credentials should be in the hands of the Committee on Admissions by September 15, 1960; otherwise, the student must postpone registration until Monday, October 3, 1960, thereby incurring an additional fee of \$15 for lateness.

Seniors who are degree candidates of other colleges may apply for permission to complete their requirements at Barnard. Applicants must present satisfactory college records and letters of approval from their Deans. All students are expected to comply with the Barnard regulations concerning attendance and course examinations.

### ADMISSION OF FOREIGN STUDENTS

Foreign students are expected to take the scholastic aptitude test given by the College Entrance Examination Board, if it is possible for them to arrange to do so. Requests for the establishment of overseas centers should reach the Board two months prior to the examination dates listed on the previous pages. Students whose native language is not English must in addition present official evidence of their proficiency in English.

All foreign students must take English placement tests in writing, aural comprehension, and speech during the week of registration in September or in February. Failure to pass these tests will necessitate remedial courses in English at Columbia University, either without academic credit or with limited credit, depending on the level of the course and the grade obtained.

For information concerning the Medical Expense Policy which is obligatory for foreign students whose home is outside the United States, please see page 148.

Candidates are urged to communicate with the Director of Admissions well in advance of the date they wish to enter, so that the College may be of assistance to them in making their plans.

### ADMISSION AS SPECIAL STUDENTS

Mature students who wish to pursue serious study at an advanced level, without working for a degree, may in some cases be admitted for one year as non-matriculated students. They must submit evidence of good character and proof that they are qualified scholastically to take the



## ADMISSION

courses of their choice. Students who wish to remain as special students for more than one year must receive permission to do so from the Committee on Instruction, and must maintain an academic standing of at least 2.00 (C).

Special students are governed by the same attendance, course examination, health, proficiency and deficiency regulations as matriculated students. They are entitled to a formal statement testifying to the courses they have taken. If they satisfactorily complete thirty points of work, they may apply for transfer to a matriculated basis as candidates for a degree.

## RE-ADMISSION

A student who has withdrawn from the College, or who has been on leave of absence, is not automatically re-admitted. She should make application for re-admission to the Director of Admissions. A non-refundable fee of \$15 must accompany the application. Credentials are due by December 1 for the spring term, and by May 1 for the autumn term.

## IV. Degree Requirements

### ACADEMIC REQUIREMENTS FOR THE A.B. DEGREE

Requirements for the Bachelor of Arts degree serve as a framework for the acquisition of knowledge of the various fields of human thought, and have been planned to secure for the student a sound foundation in the liberal arts and sciences on which to base intensive work in the sphere of her special interest. These requirements call for the completion of 120 points (a point is considered to be the equivalent of fifty minutes of class work a week and two hours of preparation) and include the following:

- I. English. The introductory course, English A1-A2, Reading and Writing. (Foreign students please refer to page 26.)
- II. Hygiene, unless exemption is granted on the basis of a test.
- III. Foreign languages: (1) Competence in one foreign language (ordinarily attainable after a third-year college course or the equivalent). This requirement may be fulfilled by passing with a sufficiently high score a language examination, prescribed for all new students before registration, or by satisfactory completion of a designated course. (See the statement under the appropriate language department for further details.) (2) One year's study of a second foreign language, unless the student has had the equivalent (two years) in secondary school.
- IV. Humanities: (1) Six points of work in literature, studied in the language in which it was originally written, normally the six points to be taken in the same language. (2) Six points of work in fine arts (or Fine Arts 1-2, four points), literature (which may be in translation), music, philosophy or religion. (Religion 25 may be counted either towards the humanities or the contemporary society requirement, but not in both.)
- V. Social Sciences: (1) History: one full-year course, normally European history (1-2), or American history (9-10, 33-34, 45-46, or 55-56). (2) Contemporary Society: one full-year's work in another social science to be chosen from the following: Anthropology 1-2; Economics 1-2 (both terms), 19 and 31; Geography 3, 4; 12; 15E; 15W; Government 1, 2 (both terms), 7, 8 (both terms), and 9, 10; Psychology 37; Religion 25; Sociology 1-2 (both terms). Unless both terms are indicated, any combination of these courses may be made.
- VI. Natural Sciences: Two full-year courses, one of which must include laboratory work (8-10 points). The sciences are divided

## DEGREE REQUIREMENTS

into two areas: (1) biological—anthropology (human evolution), botany, experimental psychology, zoology, and (2) physical—chemistry, physical geography, geology, physics. Both areas must be represented, unless mathematics (6 points) is elected to fulfill the non-laboratory science requirement.

- VII. A major field to be selected before the end of the sophomore year, consisting of not less than 28 points of prescribed work and, if specified in the departmental statements, a major examination at the end of the senior year. A major may be chosen in any one field, or in such combinations as are indicated. Transfer students are required to take a minimum of 18 points in their major at Barnard.
- VIII. Electives: To be chosen in accordance with the interests and objectives of the student (40 to 44 points).
- IX. Physical Education (required for three years).

These requirements can be summarized numerically as follows:

Group requirements .....	48 to 52 points
Major requirement .....	28 points
Electives .....	44 to 40 points
Physical education .....	three years

Students' programs are planned with the advice of the Class and Major Advisers and are filed on dates announced by the College (see page 163).

## MAJOR FIELD REQUIREMENTS

In addition to the 28 points of course work prescribed, each department requires special work to coordinate the student's knowledge in the major field. The exact nature of these requirements varies with the subject matter and the department's conception of the best method of mastering it. In some, a major examination must be taken; in others, a senior thesis must be written or a senior seminar successfully completed. Specific departmental requirements are listed in the appropriate statements, beginning on page 33. At the end of the sophomore year each student chooses her Major Adviser, with whom she plans all subsequent work in her area of concentration.

## CREDIT

All requirements must be completed within six years from the student's matriculation as a freshman at Barnard or elsewhere; within four-and-a-



## BARNARD COLLEGE

half years from matriculation as a sophomore; three years from matriculation as a junior; and a year and a half from matriculation as a senior.

Fifteen of the points of the senior year must be taken at Barnard except by special permission of the Committee on Instruction. Normally, such permission is granted to students who have spent no less than two years at Barnard; whose scholastic standing is above average; and who present a well-planned program approved by the major department.

In order to be recommended for the degree a student must maintain a cumulative average of 2.00 (C) for her entire course and for her senior year specifically. (See Grading System, page 166.)

### REQUIREMENTS FOR TRANSFER STUDENTS

Before registration an estimate of credit is sent to students transferring from other colleges as a guide to the required work to be completed at Barnard. The student in conference with the Class and Major Advisers determines her program of work, taking into account her previous academic record and her future plans. The following restrictions should be noted:

All transfer students are required to take the English proficiency test during the registration period. Any student who has had an introductory course comparable to English A1-A2 is allowed to fulfill the English requirement by offering this course from another college, provided she passes the proficiency test. Others are assigned either to English 1, 2 or to other English courses suited to their needs.

Transfer students are also required to take a language placement test before registration. They will be assigned to the course which the results of the test indicate they are prepared to take. A high score on the placement test will give exemption from the language requirement. On the other hand, should the student be placed in a language course lower than one she has already passed at her former college, she will lose credit for the introductory work. Transfer work in literature, of a level comparable to courses offered by the Barnard College language departments, will be counted as elective credit and may be used to satisfy the *literature* requirement, even though the student may be required to take additional work in the language in order to complete the *language* requirement.

All sophomore transfers are required to take the hygiene exemption test during the registration period. Those who do not pass the test must take Hygiene 1 (see page 91) during the autumn term of the sophomore year. After the opening of college all junior transfers will be interviewed by Dr. Nelson to determine the question of their exemption from the hygiene course.

## *DEGREE REQUIREMENTS*

A maximum of 32 points towards the Barnard degree is allowed for one year's work elsewhere. Sixty of the points to be counted towards the degree must be taken at Barnard, as well as a minimum of 18 points in the major field. Only if the student's overall average in her previous college is 2.00 (C), can work of D grade done elsewhere count towards the Barnard degree.

Qualified transfer students are eligible to apply for admission to the professional schools of the University on completion of required preliminary work at Barnard.

## V. Courses of Instruction

The College reserves the right to withdraw or modify any course or to change the instructors as may be necessary.

Course descriptions will be found in the following pages. Fuller information can be obtained from the chairmen of the departments at registration periods and during the academic year. Room assignments are printed on separate sheets and distributed during registration.

The credit value of each course is stated numerically in points following the title in all course descriptions.

Autumn term courses are marked by odd numbers, spring term courses by even numbers, year courses by consecutive odd and even numbers. An odd number preceded by the prefix R indicates a course repeated in the spring term that is ordinarily given in the autumn term. An even number preceded by R indicates a course repeated in the autumn term that is ordinarily given in the spring term.

Indivisible courses which run throughout the year are marked with a hyphen between the numerals (History 1-2). No credit is given for work in an indivisible course dropped at mid-year without the written consent of the instructor and the Committee on Programs and Standing.

Divisible courses which run throughout the year are marked with a comma between the numerals (English 1, 2). The first half of such courses may be taken separately. Admission to the second half without completion of the first half is granted only if all prerequisites have been met, and the written permission of the instructor obtained.

Courses marked with a star (★) are given at Columbia University and are open to Barnard students. They may not be taken on an audit basis. Courses marked with a star (★) and the prefix G.S. are given in the School of General Studies of the University.

Courses are arranged in examination groups to avoid conflicts on the examination schedule. The groups are indicated by boldface numerals following the course title (English Composition, 6 points. [**0**]). Group **0** includes courses which ordinarily do not have set examinations. No student may elect two courses in the same examination group, other than Group **0**, without a written statement from one or the other instructor that a conflict examination will be given. This statement must be filed by the student in the Registrar's office. A complete list of courses by examination groups is given on page 179.

Foreign languages not taught at Barnard which are available at Columbia may be taken by qualified students with the approval of the Class Advisers and the University authorities.



# INTERDEPARTMENTAL OFFERINGS

## I. AREAS STUDIES

Officer in charge for 1960-61, PROFESSOR ULANOV.

### A. Foreign Areas Studies

Based on a foundation of general courses in the social sciences and the command of at least one foreign language, Foreign Areas Studies are designed to enable a student to concentrate on the civilization of some one area or country of the world.

A major in Foreign Areas Studies is available to a limited number of qualified students whose applications are approved by the committee in charge. Freshmen and sophomores anticipating such a major should consult their advisers and Professor Ulanov as soon as possible.

A student who wishes to major in Foreign Areas Studies must satisfy the foreign language requirement (page 28) before becoming a major. In her freshman and sophomore years she should also take at least 12 points in the social sciences.

After being accepted as a major, the student will be expected to specialize in the study of one country or region. For this purpose she will continue her work in language and will take such courses in the literature, fine arts, geography, history and institutions of her chosen area as may be determined in consultation with her adviser. Whenever possible, these courses will include a seminar in the senior year.

In addition to the language courses given at Barnard, courses in many other languages are available to Barnard students at Columbia University.

Areas of concentration:

1. England. See special program in British Civilization, page 35.
2. Western Europe, with special reference to some one country, Professors Bové, Breunig, Carrié, Stabenau and others.
3. Russia, Mrs. Emerson.
4. Far East, Professor Mahler.
5. Latin America, Professor Florit.

Major examination: Students majoring in Foreign Areas Studies are required to pass a major examination, the exact nature of which varies with the individual field. Specially qualified students may be invited to write a senior thesis instead of taking a major examination.

### B. International Relations

A student who is particularly interested in the field of international relations should major in one of the social sciences, such as economics, government or history. With her major in her chosen subject, she should combine courses in other subjects which deal with international themes. A mimeographed list of such courses, from which selections can be made in consultation with the adviser, is available.

## BARNARD COLLEGE

In addition to the courses given at Barnard, other courses in international relations and related fields are available at Columbia University.

### II. AMERICAN STUDIES

This program is supervised by the Committee on American Studies:

<sup>1</sup>BASIL RAUCH, Professor of History, Chairman

ANNETTE K. BAXTER, Lecturer in History, Acting Chairman

DANIEL AARON, Visiting Professor of American Studies

<sup>1</sup>JOHN A. KOUWENHOVEN, Professor of English

OTTO LUENING, Professor of Music

BERNARD BARBER, Associate Professor of Sociology

<sup>1</sup>MARIANNA BYRAM, Assistant Professor of Fine Arts

The purpose of the program is to develop understanding of American civilization considered as a whole. The results of specialized study in all fields of learning dealing with American subject matter are assembled for the work of the senior seminar.

A major in American Studies. Students who wish to major in American Studies should obtain from the Chairman of the Committee an application form which is to be filled out and returned to him when major subjects are selected. Applicants must show special qualification for the major by their performance in several of the required courses. By the end of the sophomore year, applicants should complete History 9–10 and 1–2, and at least two of the required basic courses. In the junior year majors should take the remaining two basic courses and American Studies 1, 2, and in the senior year the two advanced courses and American Studies 3, 4.

Required Courses:

History 9–10, History of the American Nation from Colonies to World Power  
History 1–2, Modern European History

Basic and advanced courses in social sciences and humanities to be selected from a mimeographed list issued by the Chairman. These courses are distributed as follows:

Two basic full-year courses in social sciences.

Two basic full-year courses in humanities.

One full-year advanced course in one of the social sciences in which a basic course was taken.

One full-year advanced course in one of the humanities in which a basic course was taken.

A research essay to be prepared in the senior seminar is required in lieu of the major examination.

#### 1, 2. Junior Readings. 6 points.

[0]

Students will read selected classics in American Studies and also important books dealing with subjects which they do not study in basic courses. Brief written

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<sup>1</sup> Absent on leave, 1960-61.

## INTERDEPARTMENTAL MAJORS

reports for discussion in the meetings. The reading list for this course should be obtained by majors at the end of the sophomore year in preparation for entering the course in the fall. At the end of the spring term a summer reading assignment will be made for completion before entering the senior seminar.

Required of all junior majors in American Studies. Open to others by special permission of the Chairman of the Committee. DR. BAXTER. Bi-weekly meetings of two hours. Hours to be arranged.

### **3, 4. Senior Seminar. 8 points. [0]**

A theme will be selected each year which will require the use of materials drawn from several of the disciplines dealing with American experience. Students will conduct individual research and writing programs on a particular aspect of the general theme, and present their results to the seminar.

Required of all senior majors in American Studies. Open to others by special permission of the Chairman of the Committee. PROFESSOR AARON. W 4-6 and frequent conferences.

## III. BRITISH CIVILIZATION

This program is supervised by the Committee on British Civilization:

SIDNEY A. BURRELL, Associate Professor of History, Chairman

DAVID A. ROBERTSON, JR., Professor of English

CHILTON WILLIAMSON, Associate Professor of History

Open to students who wish to devote particular attention to all aspects of British civilization in the home islands and in the Empire-Commonwealth as well as to the interrelations of both with European civilization as a whole.

A major in British Civilization. A student who wishes to major in British Civilization must obtain from the Chairman of the Committee an application form which is to be filled out and returned to him before March 1 of the sophomore year. By this time the applicant should have completed or be in the process of completing History 1-2. The applicant should then plan, in consultation with the Chairman, a program of study which will contain the following three required courses: History 11, 12; History 35, 36; and a senior seminar.

In addition each student should select in accordance with her interests a minimum of three courses in the social sciences and the humanities to be selected in consultation with the Chairman, as follows:

One basic course in the social sciences.

One basic course in the humanities.

One advanced course in either the social sciences or the humanities.

Senior requirement: A senior may elect to take a three-hour comprehensive examination to be given at the end of April or she may write a senior thesis, the length and standards of which will be set by the Committee.

### **81-82. Seminar in British Civilization. 8 points. [0]**

Readings and discussion of selected problems in the development of British civilization from the Norman Conquest to the twentieth century. Open to majors in



## BARNARD COLLEGE

British Civilization and history majors interested in historiography on permission of the Chairman of the Committee on British Civilization. Prerequisite: History 11, 12. ————. Th 4–6.

### IV. INTERDEPARTMENTAL COURSE

**Humanities 41, 42. Thought and Expression in Early Modern Europe.** [3]  
6 points.

Lectures and conferences on European intellectual development in politics, letters, and science from the Renaissance through the seventeenth century. Prerequisite: History 1–2 and a reading knowledge of one foreign language. PROFESSOR COLIE. M W F 11.

### V. OTHER INTERDEPARTMENTAL OFFERINGS

**An interdepartmental program in the foundations of education and child study.**  
See page 51 for details.

**A major in natural resources** offered jointly by the Departments of Botany and Geology-Geography. Required courses are Botany 1–2 and 7, Geography 12, Geology 1, 2 and 30, and a Senior Seminar in Natural Resources. All majors must take a course in field ecology and conservation. So far as possible these courses should be arranged in a three or four year sequence. Other Barnard requirements must be fulfilled by courses which correlate with the major field. Further information concerning the objectives and the program of study of this major may be had from the departments concerned.

**Joint majors.** In addition to the offerings described above, it is possible for students to take a joint major in two departments. This is especially true in the social sciences where students often make combinations such as: economics and government; economics and sociology; government and history; government and sociology.

For the requirements in these and other similar majors, consult the departments concerned.

### VI. THE HERITAGE OF THE HUMANITIES

The following courses have been grouped together as an introduction to the varied facets of our cultural heritage and traditions. For suggestions as to further development of this material, please consult the chairman of one of the humanities or social science departments. Course descriptions may be found in the departmental statements.

**Anthropology 9. Language and Culture.** [6]  
PROFESSOR CHOWNING. T Th 9:10–10:25. 3 points.

**Classical Civilization R58. Masterpieces of Greek Thought.** [3]  
PROFESSOR DAY. M W F 11. 3 points.

## INTERDEPARTMENTAL OFFERINGS

- English R44. Masterpieces of the Middle Ages.** [2]  
MISS NELBACH. M W F 10. 3 points.
- English 69. Development of English Drama from its Beginnings to 1642.** [2]  
PROFESSOR PATTERSON. M W F 10. 3 points.
- English 70. English Drama from the Restoration to the End of the Nineteenth Century.** [2]  
PROFESSOR HOOK. M W F 10. 3 points.
- English 83. Modern Literature and the Allied Arts.** [9]  
PROFESSOR ULANOV. T Th 2:10–3:25. 3 points.
- English 86. Drama from Ibsen to the Present.** [9]  
PROFESSOR ULANOV. T Th 2:10–3:25. 3 points.
- Humanities 41, 42. Thought and Expression in Early Modern Europe.** [3]  
PROFESSOR COLIE. M W F 11. 6 points.
- Italian 21. Dante, Petrarca and their World.** [17]  
PROFESSOR BOVÉ. T 3:10–4:50. 2 or 3 points.
- Italian 22. Italian Renaissance and its Classical Background.** [17]  
PROFESSOR BOVÉ. T 3:10–4:50. 2 or 3 points.
- Oriental Civilizations 35–36.** [16]  
PROFESSORS DE BARY, and MESKILL, and MR. EMBREE. Section I M W F 9.  
Section II M W F 2. Fourth hour to be arranged. 8 points.
- ★Oriental Humanities 39–40.** [16]  
PROFESSORS DE BARY, MADINA, MESKILL, and WEILER and MR. EMBREE.  
Section I M 3–5. Section II F 3–5. 8 points.
- Philosophy 41. Philosophy of Art.** [12]  
PROFESSOR NAHM. Th 3–5 and conference hour. 3 points.
- Philosophy 43. Philosophical Implications of the Modern Novel.** [3]  
PROFESSOR BRENNAN. M W F 11. 3 points.
- Religion 25, 26. Religion in Contemporary Society and Culture.** [1]  
PROFESSOR NIEBUHR and MR. STAHRER. M W F 9. 6 points.
- Spanish 33, 34. Masterpieces of Spanish Literature in Translation.** [9]  
PROFESSORS DA CAL, FLORIT, GARCÍA-LORCA, and DEL RÍO. T Th 2. 4 points.

# ANTHROPOLOGY

ASSISTANT PROFESSORS: ANN CHOWNING, CATHARINE MCCLELLAN (Chairman)  
ASSISTANT: -----

The department recommends as much background work as possible in the subjects required for the liberal arts degree. A reading knowledge of German and of French or Spanish is strongly urged.

Majors are required to take: Course 1-2; 5-6; 19, 20; 51, 52, and other courses depending upon individual interests. These may include Columbia courses under the conditions listed below.

Majors of high standing may be invited to write a senior thesis. All majors must take the major examination which is in two parts (three hours each), and is designed to test ability to coordinate the work done in the major field.

**1-2. Introduction to Anthropology.** 6 points. [1]

The nature of man's society and culture; comparative study of economics, social and political organization, religion, art, and the individual in simple societies. Problems resulting from contacts between machine age cultures and non-literate groups. Fulfills the requirement in contemporary society. PROFESSOR MCCLELLAN and assistant. M W F 9.

**3. Cultural Anthropology of the Old World.** 3 points. [5]

Survey of native cultures of Africa, Oceania and of tribal groups of Asia. PROFESSOR CHOWNING. M W F 2.

**4. Cultural Anthropology of the New World.** 3 points. [5]

Survey of native cultures of the Americas. PROFESSOR MCCLELLAN. M W F 2.

**5-6. Physical Anthropology.** 6 points. [9]

The physical origin of man, his evolution and differentiation into races; consideration of the fossil record, racial criteria and population dynamics. Fulfills the non-laboratory biological science requirement. PROFESSOR CHOWNING. T Th 2:10-3:25.

**[7 (also ★107). The Study of Folklore.** 2 or 3 points. PROFESSOR CHOWNING.

Not given in 1960-61.]

**9. Language and Culture.** 3 points. [6]

The relation of language to thought and culture. Greatest emphasis on non-Indo-European languages. PROFESSOR CHOWNING. T Th 9:10-10:25.

**[11. New World Archaeology.** 3 points. PROFESSORS CHOWNING and MCCLELLAN.

Not given in 1960-61.]

**[12. Old World Archaeology.** 3 points. PROFESSOR MCCLELLAN.

Not given in 1960-61.]



## ANTHROPOLOGY

- [14. **Social Organization.** 3 points. PROFESSOR CHOWNING.  
Not given in 1960-61.]
19. **History of Anthropological Theory.** 3 points [10]  
The historical development of the principal concepts in the various subfields of anthropology from the nineteenth through the early part of the twentieth century. Bi-weekly papers for the third point. Open only to juniors and seniors. Prerequisite: Course 1-2 or written permission of the instructor. PROFESSOR McCLELLAN. W 3-5.
20. **Current Anthropological Theory.** 3 points. [10]  
Major theoretical concepts current in the various subfields of anthropology. Bi-weekly papers for the third point. Open only to juniors and seniors. Prerequisite: Course 1-2 or written permission of the instructor. PROFESSOR CHOWNING. W 3-5.
- 26 (also ★126). **Ethnology of the Far North.** 3 points. [7]  
Study of circumpolar peoples and of their relationships to each other and to the environment. Prerequisite: Course 1-2 or written consent of the instructor. PROFESSOR McCLELLAN. T Th 10.
- 51, 52. **Seminar in Anthropology.** 6 points. [0]  
The specific subject for discussion will be determined by the interests of the students. Required of all majors during the senior year and ordinarily open only to them. Requires written permission of the instructor. Autumn Term: PROFESSOR McCLELLAN; Spring Term: PROFESSOR CHOWNING. T 4-6.
- 53, 54. **Senior Thesis.** 6 points. [0]  
Topic to be chosen in consultation with the instructor in charge. Weekly conference required. PROFESSORS CHOWNING and McCLELLAN. Hour to be arranged.

## COLUMBIA COURSES

Certain graduate courses given at Columbia University may be elected in the junior and senior years with the consent of the Barnard department. A description of these courses will be found in the Announcement of the Graduate Faculties. Certain Columbia College and General Studies courses are also open to Barnard majors, provided that permission is obtained both from the Chairman of the Barnard department and from the College Representative or the General Studies Representative of the Columbia Department of Anthropology. For details of these courses see the Announcement of Columbia College and the Announcement of the School of General Studies.

In Columbia College the following courses are open to Barnard students:

- ★25-26. **Introduction to Linguistics** (same as ★Linguistics 1-2). PROFESSOR DIVER. M W F 2.
- ★32. **Archaeology of the Old World.** PROFESSOR SOLECKI. W F 11.

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★33. Comparative Linguistics (same as ★Linguistics 5). PROFESSOR GREEN-  
BERG. M W 10.

★66. Rural Latin America. PROFESSOR HARRIS. Hours to be arranged.

In the School of General Studies the following courses, in addition to those also listed as Graduate Courses, are open to Barnard students:

★G.S. 3. Peoples of Asia. PROFESSOR FRIED. T Th 5:40–6:55 p.m.

★G.S. 4. Peoples of Africa. ————. T Th 5:40–6:55 p.m.

★G.S. 5. Peoples of Polynesia. ————. M W 5:40–6:55 p.m.

★G.S. 11. Primitive Society. ————. M W 5:40–6:55 p.m.

★G.S. 42. Primitive Religion. ————. M W 5:40–6:55 p.m.

★G.S. 49. Methods and Results in Archaeology. MR. WARD. T Th 7:10–  
8:25 p.m.

★G.S. 50. Field Archaeology. MR. WARD. S 9–12 a.m.

# BOTANY

ASSOCIATE PROFESSORS: WILLIAM A. CORPE, DONALD D. RITCHIE (Chairman)

ASSISTANT: JUNE SHAW

General objectives of a major in botany are: (1) to learn the classification of the major groups of plants, their structure, function, and relations to each other, to man, and to their environment; (2) to gain some insight into such unsolved problems as those concerning growth, energy relationships, and reproduction, and to have experience in the methods used in the attack on the problems.

All students majoring in botany take Course 1–2 and additional courses to make a total of 28 points. As a preliminary to graduate work, Courses 5, 6, ★151 and ★161 are desirable, but for an introduction to the plant world, designed for personal satisfaction, or for preparation for immediate employment, other combinations are available, and are determined by the plans and desires of the student.

Related subjects: All botany majors are expected to take a year of chemistry. A student planning to become a professional botanist should also have as much physics, chemistry, zoology, and mathematics as her schedule permits. A reading knowledge of French or German or both will be necessary for graduate study. A botany student is also urged to study philosophy, history, and politics.

Major students are permitted to use space in the greenhouse for practical work in plant propagation.

Honors work: Majors are encouraged to undertake special projects, usually in the form of restricted research problems. These are not honors courses in the usual sense, but do require original investigation of biological problems, and may be rewarded by publication or special commendation.

A major examination is given which consists of a two-hour written test, with sampling questions taken from the whole field of botany, and a one-hour oral session in which each candidate is examined by the staff.

A joint major in Natural Resources is offered by the Departments of Botany and Geology-Geography. See Interdepartmental Offerings, page 36.

## **1–2. General Botany. 8 points [6]**

An introduction to the plant kingdom. The bacteria, algae, fungi, mosses, ferns and seed plants. Patterns of reproduction; heredity and evolution; intake, manufacture and utilization of nutrients; the relationship of the plant to its environment. Lecture materials correlated with laboratory studies. Emphasis upon the importance of plants to man. PROFESSOR RITCHIE and staff. Lec. T Th 9 and W 3. Lab. (2 hours) T 10–12, 2–4 or Th 2–4.

## **1a–2a. General Botany. 6 points. [6]**

Lectures identical with those of 1–2. No laboratory work. To follow or parallel: a laboratory science. PROFESSOR RITCHIE and staff. T Th 9 and W 3.

## **★G.S. Botany 3–4. Plant Geography. 6 points.**

Distribution of plant life in North America at the present time, and origin and sequence in the geologic periods. The laboratory work is in the field and aims to acquaint the student with the names and associations of our common plants.



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Prerequisite: ★G.S. Botany 1–2 or Course 1–2. Registration limited. Admission only on written permission of the instructor. PROFESSOR LIER. M Th 6–6:50. Field work at hours to be arranged.

**5, 6. Cytology.** 10 points. [2]

Study of the cell: cell wall, nucleus and cytoplasm and their inclusions, studied by means of conventional sections, special fixation, smears, vital stains, polarized light, phase microscopy, etc. Prerequisite: at least a year of college work in either botany or zoology. PROFESSOR RITCHIE. Lec. M F 10. Lab. (6 hours) W 10–12, plus 4 hours to be arranged.

**[7. Plant Resources.** 3 points.

Not given in 1960-61.]

**[8. Structure and Relationships of Flowering Plants.** 4 points.

Not given in 1960-61.]

**10. Elementary Microbiology.** 4 points [5]

Introduction to study of bacteriological methods, representative types of microorganisms, and their importance in human economy. PROFESSOR CORPE. Lec. M W 2. Lab. (4 hours) M W 3–5.

**★151. Introduction to Microbiology.** 4 points. [9]

Survey of structure, distribution, and activities of microorganisms in soil, water, and foods. Some attention to industrial processes, antibiosis, causation of disease, and immunological reactions. Prerequisites: one year of college work in botany or zoology and preceding or parallel, organic chemistry. Certain exceptions are allowed. Written permission of the instructor is required. Open to juniors and seniors. PROFESSOR CORPE. Lec. T Th 2. Lab. (4 hours) T Th 3–5.

**★152. Advanced Microbiology.** 4 points. [9]

Advanced cytological techniques, the growth curve, and variation in microorganisms. Study of certain natural and important groups within the true bacteria, actinomycetes, and yeasts. Prerequisite: Course ★151 or the equivalent. Written permission of the instructor is required. PROFESSOR CORPE. Lec. T Th 2. Lab. (4 hours) T Th 3–5.

**★161, 162. Special Problems in Microbiology, Morphology, and Physiology.** 2 to 8 points. [0]

Work planned to suit the needs and interests of the students. This course may be taken in successive years. Staff. Hours and credit by arrangement.

# CHEMISTRY

PROFESSORS: EDWARD J. KING (Chairman), EMMA D. STECHER

ASSISTANT PROFESSOR: GLORIA C. TORALBALLA

LECTURERS: CAROL S. KLEIN, BERNICE SEGAL

ASSISTANTS: —————, —————, —————

A major in chemistry is designed: (1) to make clear the orderly nature of the universe as exemplified in chemical processes, and to indicate the methods by which this order has been, and still is being, elucidated; (2) to provide the student with an understanding of the fundamental importance of chemistry both in modern industry and in the biological world; and (3) to provide for those students who wish it the necessary pre-professional training for careers in teaching, in medicine, or in chemical research.

A student majoring in chemistry must fulfill the following requirements:

Chemistry courses: General Elementary Chemistry 1–2; Qualitative Analysis 23; Quantitative Analysis 24; Organic Chemistry 41–42 and Conferences in Chemistry 99. Physical Chemistry 55, 56, and Physical Chemistry Laboratory 57 are strongly advised.

Allied subjects: General physics should be taken as early as possible. Trigonometry and Mathematics 30 must be completed before taking quantitative analysis. A reading knowledge of German must be acquired preferably before taking the second term of organic chemistry. Majors are also strongly advised to take a year of calculus and to acquire a reading knowledge of French.

Majors who complete a program prescribed by the American Chemical Society receive an accrediting certificate from the Society. Besides the courses required of all chemistry majors, these students must take Courses 55, 56 and 57 in addition to at least four points of advanced lectures and two points of advanced laboratory.

The major examination is given in two parts: The general factual material is covered in a three-hour Graduate Record examination, given in April of the senior year. At about the same time there is a four-hour examination of the essay type, designed to test the student's ability to assemble facts and coordinate material in some of the broader fields of chemical knowledge.

## **1–2. General Elementary Chemistry. 8 points. [19]**

Lectures on inorganic chemistry with emphasis on chemical principles and theories. A brief introduction to organic chemistry. This course is not divisible under any circumstances. PROFESSORS KING and TORALBALLA and assistants.

Section I: Primarily for students with no previous chemistry: Lec. T Th 9, Th 11 and a recitation hour M T W Th or F 2. Lab. (2½ hours) M T W Th or F 3–5:30.

Section II: For students with high school chemistry: Lec. T Th 10 and a recitation hour M T W Th or F 2. Lab. (2½ hours) M T W Th or F 3–5:30.

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- 1a–2a. General Elementary Chemistry.** 6 points. [19]  
Lectures and recitations identical with those of Course 1–2. No laboratory work.  
Prerequisite: Preceding or parallel, a laboratory science. PROFESSORS KING and TORALBALLA. Lec. T Th 9 or 10 and a recitation hour M T W Th or F 2.
- 23. Qualitative Analysis.** 6 points. [19]  
Lectures on ionic equilibria. Laboratory work on a semi-micro scale. Prerequisite: Course 1–2, Mathematics 1 and preceding or parallel, Mathematics 30. Laboratory deposit, \$10. PROFESSOR TORALBALLA and assistant. Lec. M W F 10. Lab. (minimum 6 hours) T Th 2–5 and, if warranted by the registration, T Th 9–12.
- 24. Quantitative Analysis.** 6 points. [19]  
An introduction to basic quantitative techniques. Prerequisite: Course 23. Laboratory deposit, \$15. PROFESSOR TORALBALLA and assistant. Lec. M W 10. Lab. (minimum 8 hours) T Th 2–6 and, if warranted by the registration, M W 2–6.
- 26. Quantitative Analysis, Special Course.** 6 points. [19]  
For students who have not taken Course 23. Prerequisite: Course 1–2. Laboratory deposit, \$15. PROFESSOR TORALBALLA and assistant. Lec. M W F 10. Lab. (minimum 6 hours) T Th 2–5.
- 41. Organic Chemistry.** Lectures (41a, 4 points). Laboratory (41b, 2 points). [1]  
Typical reactions of aliphatic compounds with an introduction to aromatic chemistry. Laboratory work in organic preparations. This course satisfies the minimum requirement for many medical schools. Prerequisite: Course 1–2. Laboratory deposit, \$15. PROFESSOR STECHER and assistants. Lec. M W F 9 and F 1. Lab. (minimum 6 hours) T Th 9–12 or 2–5 and, if warranted by registration, M W 2–5.
- 42. Organic Chemistry.** Lectures (42a, 4 points). Laboratory (42b, 2 points). [1]  
Lectures emphasize aromatic chemistry and modern theories. Laboratory work includes an introduction to qualitative organic analysis. Prerequisite: Courses 1–2 and 41. With special permission non-majors may take the lectures without the laboratory. Laboratory deposit, \$15. PROFESSOR STECHER and assistants. Lec. M W F 9 and F 1. Lab. (minimum 6 hours) T Th 9–12, and, if warranted by the registration, T Th 2–5.
- 55, 56. Physical Chemistry.** 6 points. [3]  
Chemical principles covering the states of matter and the phase rule; electrochemistry; chemical kinetics; elementary thermodynamics and chemical equilibrium. Except by special permission, chemistry majors must elect Course 57 parallel to 55. Prerequisite: Course 1–2; Physics 3–4 and Mathematics 30 and 31. DR. SEGAL. Lec. M W F 11.
- 57. Physical Chemistry Laboratory.** 3 points. [0]  
Experiments illustrating the physico-chemical approach to the study of liquids and gases, thermochemistry, chemical and phase equilibria, chemical kinetics,



## CHEMISTRY

electrochemistry and radiochemistry. Prerequisite: Courses 23, 24; Physics 3–4; Mathematics 30 and 31. Laboratory deposit, \$15. DR. SEGAL. Lab. (minimum 6 hours). T Th 9–12 or 2–5.

**64. Advanced Analytical Chemistry.** 3 points. [0]

Lectures and laboratory work on quantitative analysis with instruments. Open to students who have completed the major requirements. Laboratory deposit, \$15. PROFESSOR KING. Lec. M 1. Lab. M 2–5, W 2–4.

**78. Advanced Physical Chemistry Laboratory.** 3 points. [0]

Projects suggested by recently published work. Lectures on instrumental methods. Prerequisite: Courses 57; 56 (parallel). Laboratory deposit, \$15. PROFESSOR KING. Lec. T 2. Lab. (minimum 5 hours) T 3–5, Th 2–5.

**85. Organic Chemistry, Advanced Course.** 2 points. [4]

Modern theories of the mechanisms of organic reactions for students who have completed the major requirements except Course 99. PROFESSOR STECHER. M W 1.

**87, 88. Problems in Chemistry.** 2 or 4 points. [0]

Advanced individual laboratory projects for students who have completed the major requirements except Course 99. Laboratory deposit, \$15 each session. PROFESSORS STECHER and TORALBALLA. Hours and credit by arrangement.

**90. Physiological Chemistry.** 3 points. [2]

The chemistry of the living cell, the raw materials of cell metabolism and intermediary metabolism. Prerequisite: Courses 23, 24; 41–42 and Zoology 1–2. PROFESSOR TORALBALLA. M W F 10.

**99. Conferences in Chemistry.** 2 points. [0]

Readings and discussion of selected topics. Required of majors in their senior year. PROFESSORS KING and STECHER. F 2–4.

## GRADUATE COURSES

Certain graduate courses given at Columbia University are open with the consent of the department and the Committee on Programs and Standing of Barnard College to qualified seniors. A description of the courses and the University requirements will be found in the Announcement of the Graduate Faculties.

## CLASSICAL CIVILIZATION (See GREEK AND LATIN)

## DRAMA

The Minor Latham Playhouse is the center of activities for Barnard students interested in the theatre. Majoring in various departments, the students bring to the Playhouse their special abilities and the experience of such courses as those listed below. For further information, consult Mr. Sweet, Director of the Playhouse.

Students take part in the productions of *Wigs and Cues* (the college dramatic group); the *Gilbert and Sullivan Society*; the Spanish, French, German, and Italian Clubs; and the several dance and music groups. The *Barnard Bulletin's* dramatic column and *WKCR* (the campus radio station) offer other opportunities to develop abilities related to the theatre arts. Barnard's location in New York enables students to attend productions on and off Broadway.

Among the courses concerned with the theatre are these, described in detail in the departmental announcements:

## ENGLISH

- 13, 14. **Dramatic Writing.** 4 or 6 points. PROFESSOR TEICHMANN.
- 21, 22. **Voice and Diction.** 6 points. PROFESSOR NORMAN and Miss CAUGHRAN.
- R21. **Voice and Diction.** 3 points. PROFESSOR NORMAN and -----.
- 23, 24. **Oral Interpretation of Literature.** 6 points. Miss CAUGHRAN.
- 27, 28. **Public Speaking.** 4 points. PROFESSOR NORMAN.
- 29–30. **The Actor's Interpretation of Dramatic Literature.** 4 points.  
MME. DAYKARHANOVA.
- ★G.S. **Play Directing 1–2.** 4 points. MR. SCHNEIDER.
- R63. **Introduction to Shakespeare.** 3 points. PROFESSOR ROBERTSON.
- R64. **Shakespeare and the Elizabethan Stage.** 3 points. PROFESSOR HOOK.
69. **Development of English Drama from its Beginnings to 1642.** 3 points.  
PROFESSOR PATTERSON
70. **English Drama from the Restoration to the End of the Nineteenth Century.**  
3 points. PROFESSOR HOOK.
86. **Drama from Ibsen to the Present.** 3 points. PROFESSOR ULANOV.
- ★G.S. **Theatre History 153–154.** 6 points. PROFESSOR NAGLER.

## FRENCH

- 17, 18. **French Phonetics.** 6 points. PROFESSOR PLEASANTS.
30. **French Theatre in the Twentieth Century.** 2 or 3 points. -----.

GERMAN

- 5, 6. Introduction to the Study of German Literature from the Eighteenth Century to the Present. 6 points. PROFESSOR STABENAU and MISS SAKRAWA.
- [25, 26. German Drama in the Nineteenth and Twentieth Centuries. 4 or 6 points. PROFESSOR STABENAU.  
Not given in 1960-61.]

GREEK AND LATIN

- Greek 21. Greek Tragedy. 3 points. -----.

ITALIAN

20. Italian Drama. 2 or 3 points. PROFESSOR BOVÉ.

MUSIC

5. The Opera. 3 points. PROFESSOR LUENING.
- 39–40. Composition. 4 points. PROFESSOR LUENING.
- ★131–132. Advanced Composition. 6 points. PROFESSOR BEESON.

PHYSICAL EDUCATION

It is recommended that students take work each term in body mechanics. The courses in modern dance and fencing are particularly useful.

SPANISH

- [17–18. The Spanish Drama of the Golden Age. 6 points. PROFESSOR DEL RÍO.  
Not given in 1960-61.]



# ECONOMICS

PROFESSOR: <sup>1</sup>RAYMOND J. SAULNIER

ASSOCIATE PROFESSORS: <sup>1</sup>CLARA ELIOT, MARION HAMILTON GILLIM (Chairman),  
ROBERT LEKACHMAN

INSTRUCTOR: JAMES R. O'CONNOR

ASSISTANT: HEATHER M. SHAPIRO

Economics examines that substantial share of human activity which affects conditions of living. The major is planned to give each student an understanding of important aspects of economic life as a background both for informed citizenship and also for a career in business, government, research, or teaching. The courses offered treat the history of economic institutions and thought; current economic affairs, both national and international; and methods of economic research and analysis. A student may arrange her program to fit her special interests.

A student majoring in economics will be required to take Courses 1–2; 27 or 28, and 51–52 or its equivalent. Courses 5, 6 and 17, 18 are strongly recommended.

Other social sciences: In view of the essential unity of the social sciences, a major is required to take, in addition to a minimum of 28 points in economics, courses amounting to 12 points in two of the following departments, selected in conference with her adviser: anthropology, geography, government, history, philosophy, psychology, religion, sociology. See also Interdepartmental Offerings, page 36.

There will be no major examination. In 1960-61 the senior seminar will not be offered; each senior will write a thesis for three points of credit under Course 61, 62 in conjunction with an advanced course in the department selected in consultation with her major adviser.

## **1–2. Introductory Economics. 6 points. [13]**

A study of the institutions and forces affecting the stability and growth of income and employment. Subjects covered include: Business and labor organization, national income and its determination, economic theory, economic fluctuations, monetary economics, government finance, international economic relations, and the problems of underdeveloped countries. May be counted towards the requirement in contemporary society. PROFESSORS GILLIM and LEKACHMAN and MR. O'CONNOR. Section I M W F 9. Section II M W F 10. Section III T Th 9:10–10:25.

## **[3. Economic Problems of the Consumer. 2 or 3 points.** Not given in 1960-61.]

## **[4. Personal Finance. 2 or 3 points.** Not given in 1960-61.]

## **5, 6. Economic History. 6 points. [4]** The rise of capitalism in western Europe and the United States. British industrial innovation and continental imitation. The development and decline of open world

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<sup>1</sup> Absent on leave, 1960-61.

## ECONOMICS

markets. The rise of American economic power. The social and political conditions of economic change. Open to all except freshmen. Course 5 is a prerequisite to Course 6. PROFESSOR LEKACHMAN. M W F 1.

[R9. **Money and Banking.** 3 points.  
Not given in 1960-61.]

16. **Government Finance and Fiscal Policy.** 3 points. [3]  
Government taxing, spending, and borrowing; their effects on employment, prices, and incomes; fiscal relations among federal, state, and local governments; and the federal budget. Prerequisite: Course 1-2 or permission of the instructor. PROFESSOR GILLIM. M W F 11.

17, 18. **Introductory Statistics.** 6 points. [1]  
Autumn Term: The gathering, processing, presentation, and analysis of statistical data; linear correlation; and an introduction to statistical inference. Spring Term: Index numbers; time series; non-linear correlation; and other techniques useful in the social sciences. Course 17 is a prerequisite of Course 18. PROFESSOR GILLIM. Lec. M W 9. Lab. (2 hours) M W 3-5 or T 3:30-5:30.

19, 20. **Labor Economics.** 6 points. [9]  
Autumn Term: Historical and theoretical approaches to the labor movement and the collective bargaining process. Spring Term: Empirical and theoretical approaches to the structure of the labor market and the determination of wages and employment. Course 19 may be counted towards the requirement in contemporary society. Open to all except freshmen. MR. O'CONNOR. T Th 2:10-3:25.

In-Service Training Program: A limited number of opportunities for on-the-job training are offered in connection with this course. Additional points will be credited for such work under Course 61, 62. Students wishing to participate must plan their program with the instructor before registration.

23. **International Economics.** 3 points. [3]  
International trade and finance; foreign investment; barriers to trade; the foreign economic policy of the United States; trade agreements; and steps towards international economic cooperation and economic development. Prerequisite: Course 1-2 or permission of the instructor. PROFESSOR GILLIM. M W F 11.

27. **Development of Economic Thought.** 3 points. [2]  
Economic thought from Adam Smith to Alfred Marshall, with some attention to the dissenting views of Marx and Veblen. Original sources. Open to all except freshmen. PROFESSOR LEKACHMAN. M W F 10.

28. **Economic Analysis.** 3 points. [2]  
Covers the major topics of modern theory: prices, income distribution, modern demand theory, and Keynesian economics. Prerequisite: Course 1-2. PROFESSOR LEKACHMAN. M W F 10.

[29. **Economic Fluctuations.** 3 points.  
Not given in 1960-61.]

## BARNARD COLLEGE

- 30. The Economics of Underdeveloped Areas.** 3 points. [7]  
The economic, demographic, social and cultural forces affecting the economic growth of underdeveloped countries. Prerequisite: Course 1–2; Course 23 is strongly recommended. MR. O'CONNOR. T Th 10:35–11:50.
- 31. Comparative Economic Systems.** 3 points. [7]  
A description of the economic problems of the United States, England and Russia, and a comparison of the economic organization of these countries with abstract conceptions of capitalism and socialism. May be counted towards the requirement in contemporary society. Open to all except freshmen.  
MR. O'CONNOR. T Th 10:35–11:50.
- [51–52. **Economic Seminar.** 6 points.  
Not given in 1960-61.]
- 61, 62. Studies in Economics.** Points: Variable; senior thesis: 3 points. [0]  
Additional credits may be obtained in this course for supervised work done in connection with some other course in economics. Special reports, a term paper, or the completion of supervised field work is required. The course may be repeated. MEMBERS OF THE DEPARTMENT.
- 63, 64. Statistical Projects.** 2 to 6 points. [0]  
Individual research projects in economics or social studies. Experience in gathering and analyzing data, possible field work, or supervised work with off-campus research organizations. Frequent individual conferences. Prerequisite: Course 17 and permission of the instructor. PROFESSOR GILLIM. Hours to be arranged.
- [★123, 124. **Financial Institutions.** 6 points. PROFESSOR SAULNIER.  
Not given in 1960-61.]

## COLUMBIA COURSES

Certain graduate courses given at Columbia University are open with the consent of the department and the Committee on Programs and Standing of Barnard College to qualified seniors. A description of these courses will be found in the Announcements of the Graduate Faculties and the Graduate School of Business. Students should consult their major advisers in making course selections.

The following Columbia College courses are also open to Barnard students with written permission of both the chairman of the Barnard department and the Columbia College departmental representative. For course descriptions, see the Announcement of Columbia College.

- ★44. **Structure of Industry and Public Policy.** 3 points. MR. KOLIN.  
M W F 11.
- ★85. **Seminar in the Economics of Public Utilities.** 4 points. PROFESSOR  
BONBRIGHT. Hours to be arranged.
- ★86. **Seminar on the European Economy.** 4 points. PROFESSOR FLORINSKY  
M 3–5.



# EDUCATION

The following interdepartmental programs are supervised by the Committee on Education:

HELEN P. BAILEY, Dean of Studies, Chairman

JOSEPH G. BRENNAN, Associate Professor of Philosophy

VIRGINIA D. HARRINGTON, Associate Professor of History

TRACY S. KENDLER, Associate Professor of Psychology

RICHARD A. NORMAN, Assistant Professor of English

JOSEPHINE MAYER, Associate in Education, Director of the Teaching Programs

CHARLOTTE MUNDY, Instructor in Education

THE PRESIDENT, *ex officio*

These programs are open only to qualified seniors whose applications are approved by the Committee on Education. They are designed to offer, within the context of a liberal arts curriculum, an introduction to the field of education. They afford a minimum of twelve points towards certification for teaching; full certification requires courses of study beyond the Barnard offerings.

The first two courses are directly concerned with teaching in elementary and secondary schools. The third course, the Colloquium, provides opportunity for discussion of educational topics of general interest and enrollment is not limited to those planning to enter the teaching profession. The programs do not constitute a major; they are taken in conjunction with a major in some other subject.

Before the end of the sophomore year students interested in teaching should confer with the Director of the Teaching Programs. Juniors who wish to apply for admission to one or the other of the programs should file application forms which may be obtained from the office of the Dean of Studies early in the spring term.

## **Education 1–2. Introduction to the Theory and Practice of Teaching in the Elementary School. 8 points. [9]**

Observation and student teaching in public and private schools provide the basis for class discussions, demonstrations and lectures on methods, materials and principles of elementary school teaching. Prerequisite: Psychology 1 or R1.

MRS. MUNDY. A minimum of two full mornings a week and T 2–4.

## **Education 3–4. Introduction to the Theory and Practice of Teaching in the Secondary School. 8 points. [9]**

This course affords observation and student teaching in public and private schools. The experiences of observation and participation furnish the basis for study of principles, methods, and materials for effective teaching in the secondary school. Prerequisite: Psychology 1 or R1. MISS MAYER. A minimum of two full mornings a week and T 2–4.

## **Education 5–6. Colloquium on Educational Trends and Problems. [11] 4 points.**

This course offers discussion of trends and problems in education, with particu-

## BARNARD COLLEGE

lar emphasis on contemporary developments and experiments. Open to all seniors. Required for all students taking Education 1–2 or Education 3–4. Guest speakers with experience in the field of education will participate in the colloquium as well as members of the Barnard and Columbia faculties. PROFESSOR BRENNAN, Director. Th 2:10–3:30.

### RELATED COURSES

**English 27, 28. Public Speaking.** 4 points. [0]

Autumn Term: Training in organization of materials and effective delivery; study of logical and psychological factors in persuasive speaking. Intended primarily for students who plan to teach. Spring Term: Composition and delivery of formal and informal speeches; participation in discussion groups; techniques of argumentation. PROFESSOR NORMAN. T Th 4.

**History 43. The History of Education in the United States.** 3 points. [4]

Development of education in the United States against the background of political, philosophical, religious, and scientific thought. Emphasis upon the social and intellectual forces which have shaped education. PROFESSOR HARRINGTON. M W F 1.

**Philosophy 84. The Philosophy of Education.** 3 points. [4]

The values and goals of education; a study of contemporary problems against their historical backgrounds. Selections from the works of Plato, Aristotle, Locke, Rousseau, Newman, and Dewey as well as contemporary critics. PROFESSOR BRENNAN. M W F 1.

**Psychology 15. Psychology of Learning.** 3 points. [3]

The chief problems, methods, and results in the study of learning. Among the topics emphasized are basic learning principles, theories of learning, retention, transfer of training, thinking and problem-solving. The relation of these basic concepts to educational problems is stressed. Prerequisite: Course 1 or the equivalent. Open to all except freshmen. PROFESSOR TIGHE. M W F 11.

**Psychology 27. Developmental Psychology. I.** 4 points. [2]

Study of the origin and development of psychological processes with particular emphasis on the period from infancy through early childhood. The laboratory consists of the observation and measurement of children's behavior in the nursery school. Prerequisite: Course 1 or the equivalent. PROFESSOR CANNELL and assistants. Lec. M W F 10. Lab. (2 hours) T W Th or F 2–4.

**Psychology 27a. Developmental Psychology. I.** 3 points. [2]

Lectures identical with those of Course 27. No laboratory work. Prerequisite: Course 1 or the equivalent. PROFESSOR CANNELL. M W F 10.

**Psychology 28. Developmental Psychology. II.** 4 points. [2]

A continuation of the study of the development of psychological processes with emphasis on the period from early childhood through adolescence. The laboratory consists of the observation of both exceptional and normal children at various age

## EDUCATION

levels and in a variety of educational and institutional settings. Prerequisite: Course 27. PROFESSOR CANNELL and assistants. M W F 10. Lab. (2 hours) to be arranged.

**Psychology 28a. Developmental Psychology. II.** 3 points. [2]

Lectures identical with those of Course 28. No laboratory work. Prerequisite: Course 27. PROFESSOR CANNELL. M W F 10.

**Recreational Leadership 1.** 2 points. [10]

This course is planned to give students an understanding and appreciation of the field of recreation. Lectures, discussions, practice and participation in activities, such as community music, arts and crafts, informal dramatics, story-telling, games.

Participation in the elementary teaching program and extracurricular activities related to recreation and social work is especially recommended for practice and experience. PROFESSOR HOLLAND. M W 4 and a third hour for field work.



## ENGLISH

PROFESSORS: W. CABELL GREET, <sup>1</sup>JOHN A. KOUWENHOVEN, <sup>2</sup>DAVID A. ROBERTSON, JR., ELEANOR ROSENBERG (Chairman), ELEANOR M. TILTON

VIRGINIA C. GILDERSLEEVE VISITING PROFESSOR: JANET ADAM SMITH

ASSOCIATE PROFESSORS: LUCYLE HOOK, LORNA F. MCGUIRE, BARRY ULANOV

ASSISTANT PROFESSORS: GEORGE P. ELLIOTT, RICHARD A. NORMAN, REMINGTON P. PATTERSON (Director of English A)

ADJUNCT ASSISTANT PROFESSORS: TAMARA DAYKARHANOVA, HOWARD M. TEICHMANN

ASSOCIATE: INEZ G. NELBACH

INSTRUCTORS: ELIZABETH CAUGHRAN, MARCUS KLEIN, JOANN RYAN MORSE (Secretary and Examinations Officer), ROBERT PACK

LECTURERS: BARBARA M. CROSS, MARJORIE HOUSEPIAN DOBKIN, JANICE FARRAR, RUTH MONTGOMERY KIVETTE

ASSISTANTS: MARGARET D. HANCE, ANNE L. PRESCOTT

OFFICERS OF COLUMBIA UNIVERSITY GIVING INSTRUCTION TO BARNARD STUDENTS:

PROFESSOR: JAMES L. CLIFFORD

VISITING PROFESSOR: A. M. NAGLER

ASSOCIATE PROFESSOR: <sup>3</sup>BERT M-P. LEEFMANS

LECTURER: ALAN SCHNEIDER

A major in English: If you plan to major in English, you should aim at these objectives: to have in mind the main outlines of literary history, to gain some knowledge of the development of the English language, to increase your ability to read with understanding the principal writers in English, to extend your familiarity with a chosen portion of the department's work (literature, writing, speech), and to improve your writing.

To qualify as an English major, you should plan to take the departmental examination in the data of literary history in the spring of your sophomore year; you must have passed it by November of your junior year. The examination is given twice a year, in November and March. For preparation, C. G. Osgood's *Voice of England* and W. F. Thrall and Addison Hibbard's *Handbook to Literature* are recommended.

The major examination is in three parts. You will not be required to take Part III (one and a half hours), an examination in the history of the language, if you have received a grade of C or better in a half-year course numbered from 50 to 59. Parts I and II (three hours each) require critical comment on passages of prose and verse, and composition of essays on literary topics. Candidates will be expected to have read a good deal of Chaucer, Shakespeare, Milton, and some major writers, English and American, of the eighteenth, nineteenth, and twentieth centuries.

You should arrange, in consultation with your major adviser, a program includ-

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<sup>1</sup> Absent on leave, 1960-61.

<sup>2</sup> Absent on leave, Autumn Term.

<sup>3</sup> Absent on leave, Spring Term.

ing (a) three half-year courses numbered from 50 to 69; (b) three half-year courses numbered from 70 to 89; (c) Course 91, 92 in both junior and senior years; (d) Course 93 (or R93) in the junior year; (e) four half-year courses in the special field of your choice (literature, writing, speech). If you elect literature, in your senior year you must take two sections of the Studies in Literature course, one in the autumn term and the other in the spring term. Credit may be allowed under (e) for work in other departments; for example, the course in English history or courses in a foreign literature. If you plan to do graduate work, you should take into account the need for preparation in foreign languages.

## INTRODUCTORY COURSES

All transfer students and foreign students are required to take the English Proficiency Test before registering for any English course.

### **A1–A2. Reading and Writing.** 6 points [0]

An approach to literary skills through intensive reading, regular assignments in composition, and discussion; frequent individual conferences with instructor. Prescribed for freshmen except in a few special cases. The only other English courses open to freshmen are Courses 19, 20; 21, 22; R21; 27, 28, any of which may be taken parallel to A1–A2. PROFESSOR PATTERSON and MEMBERS OF THE DEPARTMENT.

Sections of Course A1–A2 meet at the following hours: M W F 9, 10, 11, 1, 2. T Th 9:10–10:25, 10:35–11:50, 2:10–3:25.

Room assignments will be posted outside Room 401 Barnard.

### **D1, D2. Speech.** No credit. [0]

Individual speech examinations for transfer students. PROFESSOR NORMAN. Hours to be arranged.

## WRITING

General prerequisite, Course A1–A2. Two writing courses may not be taken concurrently unless one of the two is Course 13 or 14. To elect any course in writing, a student must secure the written permission of PROFESSOR ELLIOTT.

### **1, 2. English Composition.** 6 points. [0]

A course designed especially for students who need additional training in composition at the first-year level. Emphasis on correct and clear expression, and sound organization of materials. Students may take either term or both. Cannot be counted towards a major in English. MISS FARRAR. M W F 3.

### **3, 4. Structure and Style.** 6 points. [0]

Section I Designed to give students an opportunity to experiment, according to their interests and needs, in varied forms: the story, the poem, the essay. Students may take either term or both. MR. KLEIN. T Th 2:10–3:25.

Section II Designed to give students training beyond the first-year level in methods of exposition, including the source theme. Students may take either term or both. MRS. CROSS. T Th 2:10–3:25.

## BARNARD COLLEGE

- [5, 6. **Advanced Composition.** 6 points. PROFESSOR KOUWENHOVEN.  
Not given in 1960-61.]

Note: The following courses are open only to those who have passed at least one term of Courses 3, 4, 5, or 6 with a grade of B- or better, or who have received written permission from PROFESSOR ELLIOTT.

- 7, 8. **Experiments in Writing.** 6 points. [0]

Advanced work in the writing and close reading of poems and other literary forms. Outside readings. Individual conferences on the written work. MR. PACK. M W F 2.

- 11, 12. **Story Writing.** 6 points. [0]

Three short stories are written each term. Weekly individual conferences with the instructor, group discussion of technical problems, and wide reading in the short story. Course 11 is prerequisite to Course 12. PROFESSOR ELLIOTT. T Th 2:10-3:25.

- 13, 14. **Dramatic Writing.** 4 or 6 points. [0]

The development of a dramatic situation in terms of short fiction, the theatre, television, motion pictures, and radio. PROFESSOR TEICHMANN. T Th 2:10-3:25.

## SPEECH

To elect any course in speech, a student must secure the written permission of PROFESSOR NORMAN.

The work of English majors with a special interest in speech should include Course 21, 22 and two half-year courses in public speaking, discussion and debate, or oral interpretation. If possible, the student should also complete work in one of the courses in speech correction given at Teachers College. For courses important to students of speech, other than those listed below, see Courses 29-30; 39; 53; 55. The college dramatic club, *Wigs and Cues*, the college debating society, and the campus radio station, WKCR, offer practical experience.

19. **Informal Speaking.** 1 point. [0]

Practice in discussion and in speaking to small groups; designed for students who wish help in making themselves understood and who need experience in thinking on their feet. PROFESSOR NORMAN. Th 9.

20. **Informal Speaking.** 1 point. [0]

Same as Course 19, but given in Spring Term. MISS CAUGHRAN. Th 9.

- 21, 22. **Voice and Diction.** 6 points. [0]

Autumn Term: Training in voice production and clear articulation; frequent conferences, use of the language laboratory. Spring Term: English dialects and standards of pronunciation; oral reports, reading aloud, and extemporaneous talks.



Registration limited to 15 students. PROFESSOR NORMAN and MISS CAUGHRAN.  
 Section I M W F 11. Section II M W F 1. Section III (21 only)  
 T Th 10:35–11:50.

**R21. Voice and Diction.** 3 points. [0]

Same as Course 21, but given in the Spring Term. PROFESSOR NORMAN and  
 -----, Section I M W F 1. Section II T Th 9:10–10:25.

**23, 24. Oral Interpretation of Literature.** 6 points. [0]

Study of literary texts for oral presentation. Autumn Term: Essay, ballad, lyric  
 poetry. Spring Term: Dramatic poetry, drama. MISS CAUGHRAN. M W F 2.

**27, 28. Public Speaking.** 4 points. [0]

Autumn Term: Study of the basic principles of speech making, with emphasis on  
 evaluating and organizing material and on effectiveness of delivery. Intended  
 primarily for students who plan to teach. Spring Term: Preparation, delivery, and  
 criticism of speeches on current issues; techniques of argumentation and partici-  
 pation in discussion groups. PROFESSOR NORMAN. T Th 4.

## DRAMA

Students who have a special interest in the drama will find a summary of activi-  
 ties and courses related to that field on page 46.

**29–30. The Actor's Interpretation of Dramatic Literature.** 4 points. [0]

The study and practice of the ways in which the actor illuminates and creates  
 meaning. Students with speech problems should not take this course; they should  
 instead take Course 21, 22 or consult Professor Norman. MME. DAYKARHANOVA.  
 F 1–3.

**★G.S. Play Directing 1–2.** 4 points.

Learning through a chosen play to define and practise the director's responsibilities  
 towards actor, designer, producer, and audience. MR. SCHNEIDER. F 4–6.

**★G.S. Theatre History 153–154.** 6 points.

Introduction to theatre history (directing, acting, scene design, theatre architec-  
 ture) from the Greeks to the twentieth century. PROFESSOR NAGLER. F 6:10–  
 7:50.

## LANGUAGE AND LITERATURE

Courses marked thus § will count towards the literature part of the humanities  
 requirement.

**[39. The English Language: History and Use.** 2 points. PROFESSOR GREET.  
 Not given in 1960-61.]

**§41, §42. Introduction to English Literature.** 6 points. [12]

A general view of the scope and variety of English literature through study of  
 selected writers and their works. Autumn Term: *Beowulf* through Milton. Spring

## BARNARD COLLEGE

Term: 1700 to the present. PROFESSORS MCGUIRE and PATTERSON, MRS. MORSE, MR. KLEIN, and MR. PACK. Section I M W F 9. Section II M W F 11. Section III M W F 1.

**R44. Masterpieces of the Middle Ages.** 3 or 4 points. [2]

Important works in the European literary tradition from 354 to 1485, studied in the original language or in translation. Reading knowledge of a foreign language required for work for the fourth point. MISS NELBACH. M W F 10.

**53, §54 (also ★263, 264). Anglo-Saxon Language and Literature.** [6]  
6 points.

Autumn Term: An introduction to the study of Anglo-Saxon. Spring Term: *The Beowulf*. Course 53 is prerequisite to Course 54. Course 53 cannot be counted towards the literature requirement for the degree. PROFESSOR GREET. T Th 9.

**§55, §56. Chaucer and His Contemporaries.** 6 points.

Autumn Term: Chaucer's *Canterbury Tales*. Spring Term: *Troilus and Criseyde*, poetry and prose of the fourteenth century, including *Pearl*, *Gawain and the Green Knight*, *Piers Plowman*, selections from John Wiclif and others. Prerequisite: Course 53 or 55. PROFESSOR GREET.

Autumn Term: T Th 10:35–11:50. [7] Spring Term: W F 9. [1]

**§R63. Introduction to Shakespeare.** 3 points. [3]

The meaning, scope, and greatness of Shakespeare. PROFESSOR ROBERTSON. M W F 11.

**§R64. Shakespeare and the Elizabethan Stage.** 3 points. [3]

Selected plays studied with emphasis upon dramatic construction. PROFESSOR HOOK. M W F 11.

**§65. The Tudor Renaissance.** 3 points. [4]

Humanism, the Reformation, the New World; historians, poets, and playwrights, with special attention to Edmund Spenser. PROFESSOR ROSENBERG. M W F 1.

**§66. Milton and Seventeenth-Century Literature.** 3 points. [4]

The poetry of Jonson and the "classical" poets, Donne and the "metaphysicals," and some readings in prose; the major works of Milton. PROFESSOR ROSENBERG. M W F 1.

**§69. Development of English Drama from its Beginnings to 1642.** [2]  
3 points.

Miracle plays, moralities, and interludes; Elizabethan, Jacobean, and Caroline drama. PROFESSOR PATTERSON. M W F 10.

**§70. English Drama from the Restoration to the End of the Nineteenth Century.** 3 points. [2]

The comedy of manners, heroic tragedy, sentimental comedy and tragedy, ballad opera, bourgeois comedy, romantic tragedy, and melodrama. PROFESSOR HOOK. M W F 10.

**71, §72. Types of English Prose Fiction.** 6 points. [5]

Autumn Term: Non-realistic fiction, long and short—saga, romance, allegory, prose narrative satire, the picaresque novel, the novel of ideas. Spring Term: The realistic novel and short story. Course 71 cannot be counted towards the literature requirement for the degree. PROFESSOR ELLIOTT. M W F 2.

**§73, §74. English Literature of the Eighteenth Century.** 6 points. [7]

Autumn Term: Pope, Swift, and the Augustans. Spring Term: Dr. Johnson and his circle, and the pre-Romantics. PROFESSOR CLIFFORD. T Th 10–10:50. Th 2:30–3:20.

On Tuesday and Thursday mornings the class will attend the lectures of ★English 213, 214. The Thursday afternoon session will be a discussion at Barnard.

**§75. English Poets of the Romantic Period.** 3 points. [3]

The poetry of Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats, studied in the light of contemporaneous theories of poetry and of present-day criticism. PROFESSOR MCGUIRE. M W F 11.

[§77. **The Victorian Age in Literature.** 3 points. PROFESSOR ROBERTSON.  
Not given in 1960-61.]

**§78. Victorian Poets.** 3 points [5]

Poems by Tennyson, Browning, Arnold, Rossetti, Meredith, Morris, and Swinburne. PROFESSOR ROBERTSON. M W F 2.

**§79, §80. American Literature.** 6 points. [2]

Autumn Term: The New England background, 1620-1889. Spring Term: Major writers, 1850-1950. PROFESSOR TILTON. M W F 10.

**[82. Shapes of American Experience.** 3 points.

Prerequisite: a year of American history or literature. PROFESSOR KOUWENHOVEN. M 9 (lecture), W 9–11 (discussion).

Not given in 1960-61.]

**83. Modern Literature and the Allied Arts.** 3 points. [9]

The focus and the vocabulary of the modern artist, examined and defined first in terms of literature, and then through a comparison with painting, music, the dance, the theatre, and the motion picture. Gallery trips and record-listening. PROFESSOR ULANOV. T Th 2:10–3:25.

**84. Style in Literature and the Other Arts.** 3 points. [7]

An investigation of the elements of form and content that identify a style in literature, music, and the visual arts. Some problems of continuity and diversity in the arts during the Middle Ages and the Renaissance, the Baroque and Romantic periods. Prerequisites: a year of advanced work in literature; a year of work in other arts; satisfaction of the language requirement. Written permission of the instructor required. PROFESSOR ULANOV. T Th 10:35–11:50.



## BARNARD COLLEGE

**86. Drama from Ibsen to the Present.** 3 points. [9]

Reading of English, Continental, and American plays, of which the most important will be analyzed in class. PROFESSOR ULANOV. T Th 2:10–3:25.

**[87. The American Romantics and Their Foreign Sources.** 3 points.

Prerequisites: Course 79 and 3 points selected from Course 75, German 15, 16, French 27. PROFESSOR TILTON. M W F 1.

Not given in 1960-61.]

**§88. Scottish Literature.** 3 points [7]

Major writers and traditions studied in relation to the development of English literature from the late Middle Ages to the end of the nineteenth century.

MISS JANET ADAM SMITH, GILDERSLEEVE PROFESSOR. T Th 10:35–11:50.

## COURSES FOR MAJORS

**91, 92. The English Conference.** 2 points. [0]

The general subject is the practice of literature and drama. Members of the department will be joined by distinguished authors, critics, actors, and directors. This course is required of all English majors in both junior and senior years. It is not open to other students. PROFESSOR GREET and members of the department. Th 3:35–4:25.

**93 (or R93). Literary Criticism: Analysis and Appreciation.** 3 points. [0]

The purpose of the course is to provide experience in the reading of literary texts and some knowledge of conspicuous works in the history of literary criticism. Frequent short papers.

Course 93 (or R93) is required of all English majors in the junior year. Registration in each section is limited. Consult Mrs. Hance before completing program. PROFESSORS ADAM SMITH, HOOK, MCGUIRE, TILTON, and ULANOV, MRS. MORSE and MR. KLEIN. Section I M 3–5. Section II Autumn Term: M 2–4. Spring Term: T 3:35–5:25. Section III W 3–5. Section IV (Spring Term only) W 3–5.

**97, 98 (or R98, R97). Studies in Literature.** 6 points. [0]

The course provides opportunity for intensive study in fields to which the student has been introduced through more general courses. All English majors who elect advanced work in literature, rather than in writing or speech, are required in their senior year to take two sections, one in the Autumn Term and the other in the Spring Term. Of these, one must be a section of 97 or R97. The other may be chosen from 97, R97, and R98, or one of the courses numbered 84, 87, 88 may be substituted. Majors specializing in writing or speech may take one of the sections, if registration allows.

Registration in each section is limited. The written permission of both the major adviser and the instructor is required; blanks for this purpose will be supplied by Mrs. Hance and must be returned to her when complete.

**97 (Autumn Term)**

- I. American Literature. Prerequisites: Course 79 and 3 points selected from Course 80, History 9–10. PROFESSOR TILTON. W 3–5.  
[In 1961-62, this section will be given by PROFESSOR KOUWENHOVEN, W 9–11.]
- II. Dramatic Literature. Prerequisites: Course 63 and 3 points selected from Course 45, R64, 69, 70, 86. PROFESSOR HOOK. W 3–5.
- III. Medieval Literature. Prerequisites: 6 points selected from Courses 53, 55, 56. PROFESSOR GREET. W 3–5.

**R97 (Spring Term)**

- IV. Elizabethan and Jacobean Drama. Prerequisites: 3 points selected from Courses 63, R64, 69. PROFESSOR PATTERSON. W 3–5.
- V. Renaissance Literature. Prerequisites: 3 points selected from Courses 65 (formerly 61), 66. PROFESSOR ROSENBERG. W 3–5.
- VI. Neoclassical Literature. Prerequisites: 3 points selected from Course 73, French 23, 24, 25, 26. MRS. MORSE. M 3–5.
- VII. Romantic Literature. Prerequisites: 3 points selected from Course 75, French 28, German 15, 16. PROFESSOR MCGUIRE. W 3–5.
- [VIII. Victorian Literature. Prerequisites: 3 points selected from Courses 77, 78. PROFESSOR ROBERTSON. T 3:35–5:25.  
Not given in 1960-61.]

**R98 (Autumn Term)**

- I. Modern Poetry. MR. PACK. W 3–5.
- II. Comparative Literature. Prerequisites: 6 points selected from Course 63, French 23, 24, Classical Civilization R58. PROFESSOR LEEFMANS. T 3:35–5:25.

## FINE ARTS

PROFESSORS: JULIUS S. HELD, MARION LAWRENCE (Chairman)

ASSOCIATE PROFESSOR: JANE G. MAHLER

ASSISTANT PROFESSORS: <sup>1</sup>MARIANNA BYRAM, BARBARA NOVAK

LECTURER: ANNE B. WEINSHENKER

ASSISTANT: —————

STUDIO ASSISTANT: JULIANA CUYLER

OFFICER OF COLUMBIA UNIVERSITY GIVING INSTRUCTION IN BARNARD COLLEGE:

LECTURER: JANE HENLE

Art is a unique form of human expression. A study of its history will often provide a surprisingly vivid insight into the intellectual currents, the religious doctrines and practices, and the social institutions of the past. The student will see to what extent the unfolding of art is determined by conditions existing outside it, and by the impetus given it by the great creative personalities. She will finally gain a deepened understanding of the art of our own time and an ability, often fully appreciated only after she has left college, to enjoy intelligently the great accumulations of art in museums all over the world.

Courses in the history of art are generally of the lecture type. In several courses a third hour offers opportunities for discussions in small groups. Most courses schedule trips to museums and in other ways take advantage of the resources of New York, one of the world's great centers of art. Studio techniques are taught only in Course 1-2, but students are encouraged to take any course for which they qualify in the School of Painting and Sculpture of Columbia University. See page 65 for regulations governing these courses.

Majors in Fine Arts are required to take the seminar, 97-98, and courses in ancient, medieval, renaissance, baroque and modern art. Studio courses do not count towards the major. A reading knowledge of French, German and Italian is highly desirable, especially for students who expect to do graduate work.

The major examination is in two sections of three hours each and is designed to test (1) the student's overall knowledge of the field, (2) her ability to analyze individual works of art, and (3) her competence in one special field, chosen by her in consultation with her major adviser and in which she has been working in the senior seminar.

### **1-2. Introduction to the Study of Fine Arts. 4, or with laboratory, 6 points. [8]**

A general study of aesthetic problems in the visual arts as preparation for a more detailed study, including a discussion of the major problems of artistic expression and their solution in the fields of architecture, sculpture, and painting, together with a consideration of the art as characteristic of certain great periods of European culture. Short papers on buildings, sculpture, and paintings in New York.

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<sup>1</sup> Absent on leave, 1960-61.



Laboratory work: Drawing, sketching from the living model, water color, tempera, clay modelling, and carving. Two hours of class instruction and one of studio practice, counting one point a term.

This course satisfies the non-literature requirement in the humanities. PROFESSOR NOVAK. Lec. T Th 11. Lab. (2 hours) T 2-4, W 2-4, or Th 2-4. MISS CUYLER.

**43. Introduction to Ancient Art. 3 points. [4]**

A survey of the ancient art of Egypt, Mesopotamia, Greece and Rome down to the time of Constantine with emphasis on the major arts—architecture, painting, and sculpture. Open to all except freshmen. ★History 5, 6 is recommended as a parallel course. DR. HENLE. M W F 1. Visits to the Metropolitan Museum of Art, F 12:30, or at hours to be announced.

**51, 52. Medieval Art. 6 points. [5]**

Christian art from its beginnings in the late antique world in Mediterranean countries through the early Christian and Byzantine periods, then the Celtic, Carolingian and Romanesque styles of western Europe, with emphasis on mosaics and illuminated manuscripts. Spring Term: Romanesque sculpture of France, Romanesque architecture of Italy and France and Gothic architecture, sculpture and painting, ending with the introduction of the Italian Renaissance into France. Open to all except freshmen. History 7, 8 is recommended as a parallel course. Course 51 is prerequisite to Course 52. PROFESSOR LAWRENCE. M W F 2. Third hour and visits to the Metropolitan Museum of Art, the Pierpont Morgan Library, and the Cloisters, F 2, or at hours to be arranged.

**[61. European Architecture from the Renaissance through the Rococo Style. 3 points. PROFESSOR BYRAM. Not given in 1960-61.]**

**[63. European Sculpture, Renaissance and Modern. 3 points. PROFESSOR BYRAM. Not given in 1960-61.]**

**65. Renaissance Painting in Northern Europe. 3 points. [9]**

Painting of the Flemish, Dutch, French, and German schools from the end of the Gothic period through the sixteenth century. Emphasis on Van Eyck, Van der Weyden, Bosch, Bruegel, Dürer, and Grünewald. Open to all except freshmen. PROFESSOR HELD. T Th 2 and a third hour to be arranged. Visits to the Metropolitan Museum of Art.

**66. Italian Renaissance Painting. 3 points. [9]**

The stylistic and iconographic development of Italian painting from the thirteenth to the middle of the sixteenth century with detailed study of Giotto, Masaccio, Leonardo, Raphael, Michelangelo, and Titian. Open to all except freshmen. PROFESSOR NOVAK. T Th 2 and a third hour to be arranged. Visits to the Metropolitan Museum of Art.

**[70. European and American Architecture from the Eighteenth into the Twentieth Century. 3 points. PROFESSOR BYRAM. Not given in 1960-61.]**

## BARNARD COLLEGE

- 75, 76. European Painting since the Renaissance.** 6 points. [7]  
The artists of Mannerism and Baroque (El Greco, Caravaggio, Poussin, Velazquez, Rubens, Rembrandt), the influence on art of the Counter-Reformation and Absolutism. Spring Term: The artists of the Rococo (Watteau); Classicism and Romanticism (David, Goya, Delacroix); Realism, Impressionism, and the emergence of modern art (Courbet, Manet, Cézanne, Van Gogh, Picasso). Open to all except freshmen. Course 75 is prerequisite to Course 76 except on written permission of the instructor. PROFESSOR HELD. T Th 10:35–11:50.
- 77. American Art from Colonial Times to the Armory Show.** 3 points. [10]  
The development of the arts in America from colonial times to the Armory Show of 1913 with special emphasis on Realism and Romanticism in the nineteenth century. Open to all except freshmen. PROFESSOR NOVAK. M W F 3.
- 78. Modern European and American Painting.** 3 points. [10]  
Fauvism, Cubism, Dada, Surrealism, abstract art and other twentieth century movements. The impact of radical European innovation in America during and after the Armory Show, and the evolution of a variety of native styles from Marin to Pollock. Open to all except freshmen. PROFESSOR NOVAK. M W F 3.
- 81. The Literature of Art.** 3 points. [10]  
Study of the literary sources used in art historical research; artists' letters, journals and treatises (by Leonardo, Rubens, Delacroix, Van Gogh), contemporary biographies (Vasari and Van Mander), the ideas and writings of leading critics and scholars (Burckhardt, Wölfflin, Worringer, Berenson, Fry, Panofsky and Malraux). Visual material will be discussed. Intended for junior majors, but open in 1960-61 also to senior majors. PROFESSOR NOVAK. T 3–5.
- 82. Masterpieces of Art in the New York Museums.** 3 points. [10]  
Designed to acquaint students with some of the great artistic treasures assembled in New York and to sharpen their aesthetic and historical understanding in front of the originals themselves.  
Open only to majors. Limited to fifteen students. PROFESSOR HELD. T F 3:30–5.
- 91, 92. Oriental Art.** 6 points. [3]  
The arts of Persia, India, and Indonesia; temples, palaces, sculpture, miniature painting, frescoes, and minor arts. The arts of China and Japan, with attention to central Asiatic art as it affects these countries. Chinese bronzes, Buddhist art, and the great painting and porcelain of the Sung period; in Japan, Buddhist architecture and sculpture, and the later scrolls, screens, and prints. Open to all except freshmen. PROFESSOR MAHLER. M W F 11. Conferences and visits to the Metropolitan Museum of Art at hours to be arranged.
- 97–98. Seminar for Majors.** 6 points. [13]  
A discussion of the basic principles of art history, the tools with which the art historian works and some of his problems. Relations with classical archaeology, primitive art and anthropology, architecture, aesthetics, etc., are discussed by visiting lecturers. Brief oral reports by students on problems of general interest and

a term paper in the second term on material in the special field chosen by the student. Required of all majors in their senior year. PROFESSOR LAWRENCE.  
Th 3–5.

## TECHNICAL COURSES

Studio courses can count towards the degree only if taken parallel to a theoretical or historical course in fine arts. A maximum of 12 points of studio work may be credited towards the degree. Junior and senior majors are exempt from special fees. Admission only with written permission of the Chairman of the Department and the Departmental Representative (408 Low Library).

### ★G.S. Design 1–2. Basic Design. 6 points.

Fundamentals of design; creative construction of lines, shapes, and colors. Model fee, \$6 per term. PROFESSORS MANGRAVITE and PICKEN. Section I T Th 1–4. Section II M W 7–9:50 p.m.

### ★G.S. Drawing 1–2. Introductory Drawing. 6 points.

Drawing 1 is not prerequisite to Drawing 2, which may be taken independently. Study of fundamental principles of drawing, with special emphasis on the human figure. Model fee, \$7.50 per term. PROFESSORS KNIGHT, PICKEN, and RACZ. Section I M W 9–11:50. Section II M W 7–9:50 p.m.

### ★G.S. Sculpture 1–2. Introductory Sculpture. 6 points.

Modeling in clay and plaster, with emphasis on design. Elementary studies of the human figure. Laboratory fee, \$6 per term. PROFESSOR MALDARELLI, MR. SALVATORE and MR. VIVIANO. Section I T Th 9–11:50. Section II M W 7–9:50 p.m.

Other studio courses given at Columbia University may be taken by written permission of the Chairman of the department. These courses are described in the Announcement of the School of General Studies under Painting and Sculpture.

## GRADUATE COURSES

Certain graduate courses given at Columbia University are open to qualified seniors with the consent of the Chairman of the department and the Committee on Programs and Standing of Barnard College. A description of these courses will be found in the Announcement of the Graduate Faculties. The following are specifically recommended as suitable for Barnard seniors:

★111. The Art of Primitive Peoples. 3 points. PROFESSOR WINGERT.  
M 7–9 p.m.

★116. Indian Art of the United States and Canada. 3 points. PROFESSOR WINGERT. M 7–9 p.m.

★127A. Early Chinese Art. 3 points. PROFESSOR MAHLER. T 3–5.

★R127B. Later Chinese Art. 3 points. PROFESSOR MAHLER. T 3–5.



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- ★128. Japanese Art. 3 points. PROFESSOR MAHLER. Th 2—4.
- ★R130. Art and Archaeology of Mesopotamia. 3 points. PROFESSOR PORADA.  
M 6—8 p.m.
- ★R140. Greek Myths and Monuments. 3 points. DR. HENLE. M W 8:25—  
9:40 p.m.
- ★R141. Greek Architecture. 3 points. PROFESSOR HARRISON. M W 11—12:15.
- ★143A. Archaic Greek Sculpture and Painting. 3 points. PROFESSOR  
HARRISON. F 10—12.
- ★R143B. Greek Sculpture and Painting of the Fifth Century B.C. 3 points.  
PROFESSOR HARRISON. T 10—12.
- ★R143D. Hellenistic Sculpture and Painting. 3 points. PROFESSOR BRENDL.  
F 10—12.
- ★157A. Gothic Sculpture. 3 points. PROFESSOR BRANNER. W 10—12.
- ★162. Italian Sculpture of the Early Renaissance. 3 points. PROFESSOR  
LAWRENCE. Th 10—12.
- ★165. Raphael and his Circle. 3 points. MR. LEWINE. T 3—5.
- ★172A. Baroque Architecture in Rome. 3 points. PROFESSOR HIBBARD.  
Th 3—6.
- ★174. Baroque Sculpture. 3 points. PROFESSOR WITTKOWER. M 4—6.
- ★R176B. Flemish Painting of the Sixteenth and Seventeenth Centuries. 3  
points. PROFESSOR HELD. W 4—6.
- ★179A. American Architecture. 3 points. PROFESSOR UPJOHN. M W  
9:30—11.
- ★183. Modern Architecture. 3 points. PROFESSOR COLLINS. M W 1:40—3.
- ★188. From Cézanne to Cubism. 3 points. DR. REFF. M 10—12.

# FRENCH

PROFESSOR: LEROY BREUNIG (Chairman)

ASSOCIATE PROFESSORS: <sup>1</sup>HELEN PHELPS BAILEY, <sup>2</sup>ANDRÉ MESNARD

ASSISTANT PROFESSORS: TATIANA GREENE, RENÉE J. KOHN

ASSOCIATE: HELEN M. CARLSON

INSTRUCTORS: ELIZABETH BLAKE, RENÉE GEEN

LECTURERS: ANTOINETTE NOEL HOFFHERR, PATRICIA TERRY

OFFICER OF COLUMBIA UNIVERSITY GIVING INSTRUCTION IN BARNARD COLLEGE:

PROFESSOR: JEANNE VARNEY PLEASANTS

A major in French has two main objectives: (a) to perfect fluency in the written and the spoken language, and (b) to develop appreciation of the literature and culture of France.

A student majoring in French must take an advanced composition course, 13, 14; an advanced oral course, 17–18; and three literature courses in addition to Course 7–8. The Special Reading Seminar, 37–38, may count as one of the literature courses and is particularly recommended for senior majors. Seniors with honor grades may elect the Senior Thesis, 39–40, as one of their literature courses.

Other fields: Courses in history, fine arts, or other fields which vary with the interest of the student should be elected after consultation with the department.

The major examination consists of a six-hour section, written mainly in French, followed by a half-hour oral section.

Foreign language requirement for the degree: All new students who intend to satisfy the foreign language requirement in French must take a placement examination before registration. This examination tests the student's knowledge of grammar, her ability to comprehend written and spoken French, and her ability in free composition. Students receiving a sufficiently high grade will automatically fulfill the requirement. All others may do so by completing French 5, 6 with a minimum grade of C–.

## LANGUAGE COURSES

### **1–2. Elementary Full-Year Course. 8 points. [14]**

Grammar, reading, composition. Work in the language laboratory is required.

PROFESSOR MESNARD, MISS BLAKE, and ————. Section I M T W Th F 9.

Section II M T W Th F 11.

### **3, 4. Intermediate Course. 6 points. [14]**

Review of grammar and syntax. Translation, reading, oral practice, free composition. Work in the language laboratory is required. Prerequisite: Course 1–2

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<sup>1</sup> Absent on leave, 1960–61.

<sup>2</sup> Absent on leave, Autumn Term.

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or two years of high school French and an appropriate score on the placement examination. PROFESSOR GREENE, MRS. HOFFHERR, and DR. TERRY.

Section I M W F 10.

Section III M W F 2.

Section II M W F 12.

Section IV T Th 10:35–11:50.

### **R4. Intermediate Course. Part II. 3 points. [2]**

The equivalent of Course 4 but given in the autumn term: Prerequisite: Course 3 or three years of high school French and an appropriate score on the placement examination. MISS BLAKE. M W F 10.

### **5, 6. Third-year Course. 6 points. [14]**

The use of modern literary texts as a basis for improving the comprehension of written and spoken French. Translations into English. Compositions and oral practice. Work in the language laboratory is required. Prerequisite: Course 3, 4 or three years of high school French and an appropriate score on the placement examination. PROFESSOR BREUNIG, MISS CARLSON, and MRS. GEEN.

Section I M W F 9.

Section IV M W F 11.

Section II M W F 9.

Section V M W F 12.

Section III M W F 11.

Section VI M W F 12.

### **R5. Third-year Course. Part I. 3 points. [2]**

The equivalent of Course 5 but given in the spring term. Prerequisite: Course 4 or R4. MISS BLAKE. M W F 10.

### **R6. Third-year Course. Part II. 3 points. [4]**

The equivalent of Course 6 but given in the autumn term. Prerequisite: Course 5, R5, or three years of high school French and an appropriate score on the placement examination. PROFESSOR KOHN. M W F 1.

### **11–12. Review of Grammar and Composition.<sup>1</sup> 4 points. [10]**

Intended primarily for those taking literature courses who desire a review of grammar and syntax. There will be translation from English into French and weekly compositions. Open to students of all classes on written permission of the instructor. Limited to 10 students. PROFESSOR MESNARD and MRS. GEEN. M W 3.

### **13. Advanced Composition. 2 points. [10]**

Translation from English into French. Composition, preparation of critical essays and articles. Open only on written permission of the instructor. PROFESSOR KOHN. M W 3.

### **14. Advanced Translation. 2 points. [9]**

Translation from French into English of various styles of prose and poetry. Open only on written permission of the instructor. PROFESSOR BREUNIG. T Th 2.

### **15–16. Oral French, Intermediate Full-Year Course.<sup>1</sup> 4 points. [0]**

Pronunciation, recitation, conversations based on selected readings. Work in the phonetics studio is part of the course. Prerequisite: Course 5 or the equivalent,

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<sup>1</sup> Conducted entirely in French.



and the written permission of the department. MRS. GEEN and MRS. HOFFHERR.  
 Section I M W 2. Section II M W 3.

**17–18. French Phonetics.<sup>1</sup> 6 points. [1]**

Study of spoken French: conversational and literary; aural-oral practice supplemented by analysis of the structure (content and form) of selected passages from French literature. Work in the phonetics studio is part of the course. Open to students on written permission of the instructor. Limited to 20 students. PROFESSOR PLEASANTS. M W F 9.

## LITERATURE COURSES

The ability to use French both in speaking and in writing is a requirement for all literature courses.

Students who have not taken Course 7–8 or the equivalent must receive written permission from the Chairman of the department in order to take the more advanced literature courses beginning with 21, 22.

Courses marked thus § will satisfy the foreign language requirement, if a minimum of 6 points is taken and a grade of C– or higher is obtained.

**§7–§8. Masterpieces of Literature from the Middle Ages to the Twentieth Century. 6 points. [14]**

Lectures in French on the history of French literature, analysis of texts, recitations, discussions. Essays and reports on outside reading. Autumn Term: *La Chanson de Roland* through Molière. Spring Term: Voltaire through Proust. Prerequisites: The course presupposes the ability to comprehend written and spoken French with ease and to speak and write moderately well. The normal prerequisite is: Course 5, 6; Course 4 with a grade of at least B; or three years of high school French and an appropriate score on the placement examination. PROFESSORS KOHN and GREENE, and MRS. HOFFHERR. Section I M W F 1. Section II M W F 2. Section III T Th 9:10–10:25.

**[§9, §10. Introduction to French Civilization. 6 points. PROFESSOR MESNARD.**  
 Not given in 1960-61.]

**[§21, §22. French Literature in the Middle Ages and the Renaissance.**  
 6 points. MISS CARLSON.  
 Not given in 1960-61.]

**§23, §24. French Literature in the Seventeenth Century. 6 points. [3]**  
 Detailed study of selected masterpieces of the classical writers. The nature of French classicism. PROFESSOR KOHN. M W F 11.

**§25, §26. French Literature in the Eighteenth Century. 6 points. [2]**  
 The chief essayists, novelists, and dramatists of the period in their most significant works and letters. MRS. GEEN. M W F 10.

<sup>1</sup> Conducted entirely in French.

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- §27, §28. French Literature in the Nineteenth Century.** 6 points. [6]  
Representative works of the principal authors and literary movements from early Romanticism through Symbolism. PROFESSOR GREENE. T Th 9:10–10:25.
- §29. French Prose in the Twentieth Century.** 3 points. [7]  
The major novelists and essayists since Symbolism. ————. T Th 10:35–11:50.
- §30. French Theatre in the Twentieth Century.** 2 or 3 points. [7]  
The major dramatists and theatrical movements since Naturalism and Symbolism. ————. T Th 10:35–11:50.
- [§31, §32. Materials and Techniques of French Poetry.** 6 points. PROFES-  
SOR GREENE.  
Not given in 1960-61.]
- 37–38. Special Seminar.** 4 to 6 points. [10]  
Projects organized around a specific theme in French literature. ————. M W 2.
- 39–40. Senior Thesis.** 6 points. [0]  
Research into a precise topic of French literature and the preparation of a long essay. Open to seniors with honor grades. The essay satisfies in part the major examination requirement. PROFESSOR BREUNIG and MEMBERS OF THE DEPART-  
MENT. Hours for consultation to be arranged.
- ★125. Contemporary French Poetry.** 3 points.  
French Poetry from Symbolism to the present with analyses of significant poems since 1885. PROFESSOR BREUNIG. Th 2:10–4. Maison Française.

# GEOLOGY AND GEOGRAPHY

PROFESSOR: HENRY S. SHARP (Chairman)

ASSOCIATE PROFESSOR: LEONARD ZOBLER

INSTRUCTOR: JANE LANCASTER

ASSISTANT: JOAN KRAMER LUBOWE

OFFICERS OF COLUMBIA UNIVERSITY OFFERING COURSES OPEN TO BARNARD STUDENTS:

PROFESSORS: CHARLES H. BEHRE, RHODES W. FAIRBRIDGE, WILLIAM A. HANCE, JOHN E. ORCHARD, HERMAN F. OTTE

ASSOCIATE PROFESSORS: RALPH J. HOLMES, JOHN IMBRIE

## GEOLOGY

A major in geology is designed to acquaint the student with the chief divisions of the science; to give her a basic fund of knowledge concerning the structure and history of the earth, of the materials composing it, of the record of evolving life contained within its crust, and of the landforms developed upon its surface. Students will be given some first-hand outdoor acquaintance with geological phenomena, and will acquire some knowledge of the methods of geological research and the professional geologist's point of view towards the earth.

After Course 1–2, students majoring in geology will take Courses ★11–12; 19; ★21, and 60 in partial fulfillment of the major requirement. With the permission of the department six points of calculus or of botany, chemistry, physics, or zoology may be counted towards the major. Field experience in some such course as Geology of the Rocky Mountains, offered in Wyoming each summer by Columbia University, is desirable. Remaining points for the major may be selected from the offerings of this department and the Columbia Department of Geology. Students planning to enter graduate school will take courses in related fields of science; others may plan their science programs in accordance with their needs. All geology majors are urged to take well-balanced programs in the humanities and social sciences and to keep their concentration in geology at a minimum.

The major examination in geology will consist of the Graduate Record Examination and a three-hour written examination.

## GEOGRAPHY

Geography examines the role of natural resources in contemporary society. It considers such problems as the quality and sufficiency of mineral and organic raw materials, food supplies in relation to population growth, changing technology of production and distribution, locational patterns of economic activity, urban and regional planning, and the peculiarities of resource problems in various world regions.

A major should acquire an understanding of the way in which a modern economy rests on its natural resource endowment. The following courses are required: Courses 1; 3, 4; 12; 15E or 15W; R17; R60; Geology 1, 2 and at least one additional course in geology; Economics 1–2. Botany is recommended as the



## BARNARD COLLEGE

biological science. A judicious selection of courses from anthropology, government, history, and sociology is suggested. Students planning to go to graduate school will find it to their advantage to take mathematics, statistics, and additional economics; they should consult their major adviser early.

Majors may concentrate on foreign areas by taking related courses in the history, language, and culture of their area of interest. Special programs may be planned for those who expect to work abroad or take the Foreign Service examination. Barnard courses may be supplemented, subject to approval, by regional studies on Asia, Africa, Europe, and Latin America offered by Columbia University.

The major examination in geography will be fulfilled by an examination on the use of maps and the completion of an acceptable senior essay.

### NATURAL RESOURCES

A joint major in Natural Resources is offered by the Departments of Botany and Geology-Geography. See Interdepartmental Offerings, page 36.

### GEOGRAPHY

#### 1, 2. Physical Geography. 6 points. [7]

Introduction to the earth sciences. Autumn Term: The size and shape of the earth, the geographic system of earth coordinates (latitude and longitude), cartography and the use of maps, earth-sun relations and time, celestial navigation, descriptive meteorology and climatology. Spring Term: The crust of the earth, mineral and rock identification, evolution of landforms, physiographic regions, hydrology, soils, mineral resources. These courses satisfy the non-laboratory physical science requirement. They may be taken independently and in any order for credit. Students who have had Geology 1 or 1a should not take Course 2. PROFESSOR ZOBLER. T Th 10:35–11:50.

#### 3, 4. World Resources and Production. 6 points. [3]

Principles of economic geography and the study of natural resources as the bases for economic growth. Autumn Term: The development of agricultural resources in the world's climatic regions and its relation to food supplies, population pressure, foreign trade, and economic and political change. Special attention is given to the underdeveloped countries. Spring Term: The distribution, availability, and utilization of power and mineral resources as the basis for economic diversification, regional and urban growth, and manufacturing in the industrialized and agrarian nations. Special attention is given to the adequacy of our natural resources for the future, political conflicts over raw materials, and to planning programs for allocating resources in the developed and lesser developed nations. These courses satisfy the contemporary society requirement. They may be taken in any order and independently for credit. PROFESSOR ZOBLER. M W F 11.

#### 12 (also ★112). Natural Resources and Man. 3 points. [9]

A study of renewable and non-renewable material resources. Emphasis is placed on the basic scientific principles which guide the development of field conservation methods. Consideration also is given to economic, political, social, and

## GEOLOGY AND GEOGRAPHY

administrative factors involved in policy formulation. Soil and water conservation, forests, fisheries, minerals, wild-life, national parks, multipurpose projects, (TVA). Two one-day field trips are required. Prerequisite: One term of earth science or permission of the instructor. This course fulfills in part the contemporary society requirement. PROFESSOR ZOBLE. T Th 2:10-3:25.

### **15E. Regional Resources of Eastern United States. 3 points. [9]**

Examination of the distinctive resources and basic forces generating social and economic changes in the regions of eastern United States. Consideration of natural resources, capital, labor, and economic history. Attention is given to selected national and local resource conflicts, growth trends, inter-regional competition, and the role of each region in the national economy. Alternates with course 15W. It fulfills in part the contemporary society requirement. Not open to freshmen. PROFESSOR ZOBLE. T Th 2:10-3:25.

### **[15W. Regional Resources of Western United States and Canada. 3 points.**

PROFESSOR ZOBLE. Alternates with Course 15E.

Not given in 1960-61.]

### **R17. Cartography. 3 points [13]**

Principles governing the choice of projection, scale, and grid in map making; the use of drafting equipment; methods of depicting relief; use of aerial photographs; evaluation of source material. Prerequisite: One year of geology or geography. MISS LANCASTER. M W 12.

### **59. Seminar in Geography. 3 points. [0]**

Introduction to the philosophy and literature of geography. Training in geographic research. Discussions, oral reports, and the preparation of a written report on an assigned topic. Students are required to begin the work on their senior essay. Must be taken by senior majors. PROFESSOR ZOBLE. F 2-4.

## GEOLOGY

### **1. Physical Geology. 4 points. [2]**

The composition and structure of the earth, the internal and external forces acting upon it, and the surface features resulting. Laboratory includes study of common rocks and minerals and of contour maps as means of depicting topography. Course 1 makes a good unit for students taking other sciences and wishing to gain some knowledge of the content of geology. With Course 2 it satisfies the laboratory science requirement. MISS LANCASTER and MRS. LUBOWE. Lec. M W F 10. Lab. (2 hours) M 2-4; T 9-11; T 3:35-5:25; W 3-5; Th 8:35-10:25; Th 2-4.

### **2. Historical Geology. 4 points. [2]**

The history of the earth and of the life upon it from the beginning to modern times. The laboratory and assigned work include study of invertebrate fossils and of geologic maps and structures, museum trips, short field trips, and a required one-day field trip. Prerequisite: Course 1. PROFESSOR SHARP and MISS LANCASTER. Lec. M W F 10. Lab. (2 hours) M 2-4; T 9-11; T 3:35-5:25; W 3-5; Th 8:35-10:25; Th 2-4.

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### ★11–12. Elements of Mineralogy and Petrology. 3 points.

The fundamentals of mineralogy and petrology. Autumn Term: Crystallography, the physical properties, origin, and the economic and geologic importance of the common minerals, with emphasis on the use of physical properties and chemical testing in mineral identification. Spring Term: Primarily a basic course in petrology: the properties and relations of the rock-forming minerals, and the genesis, mode of emplacement, and alteration phenomena of the major rock types—igneous, metamorphic, and sedimentary. The laboratory work is devoted to the study of the mineral make-up and physical properties of rocks, their identification and classification. Prerequisite: Course 1. PROFESSOR HOLMES. Lec. T Th 11. Lab. T 2:10–4.

### [19. Structural Geology. 3 points. PROFESSOR SHARP.

Courses 19 and 27 are ordinarily given in alternate years.

Not given in 1960-61.]

### ★21. Introduction to Paleontology. 3 points.

A systematic survey of the morphology, taxonomy, and geologic history of groups of organisms commonly found as fossils. Prerequisite: Courses 1 and 2. PROFESSOR IMBRIE. Lec. M W 11. Lab. F 2:10–4.

### ★26 (also ★126). Experimental Marine Sedimentology. 3 points.

Training in theory and techniques of modern marine sedimentology, especially the chemical processes associated with deposition and diagenesis. PROFESSOR FAIRBRIDGE. M W 3 Lab. M or W 3–5.

### [27. Principles of Geomorphology. 3 points. PROFESSOR SHARP.

Courses 19 and 27 are ordinarily given in alternate years.

Not given in 1960-61.]

### [30 (also ★130). Geomorphology of the Western United States. 3 points. PROFESSOR SHARP.

Given in triennial sequence with similar courses on the eastern United States and Europe.

Not given in 1960-61.]

### 32 (also ★132). Geomorphology of the Eastern United States. 3 points. [5]

Formerly Course 28E. Lectures, map study, and readings on the geomorphic divisions of the eastern United States. Of value to students majoring in economics, government, history, the natural sciences, and to others wishing to understand the regional aspects of the United States, or expecting to travel within its borders. Prerequisite: one year of geology. Given in triennial sequence with similar courses on the western United States and Europe. PROFESSOR SHARP. M W F 2.

### [34 (also ★134). Geomorphology of Europe. 3 points. PROFESSOR SHARP.

Formerly Course 26. Given in triennial sequence with similar courses on the eastern and western United States.

Not given in 1960-61.]



## GEOLOGY AND GEOGRAPHY

**★53. Geology of the New York Region.** 1 point.

This course consists of about six day-length field trips to selected localities within 100 miles' radius of New York City. An illustrated field notebook will be maintained by each student. Prerequisite: Courses 1 and 2. PROFESSOR FAIRBRIDGE and assistants. Dates to be arranged.

**60. Seminar in Geology.** 3 points. [0]

A seminar course with discussions, problems, and readings on various topics in geology. Prerequisite: A year of geology. Open to juniors and seniors. PROFESSOR SHARP. W 3-5.

# GERMAN

ASSISTANT PROFESSORS: WILLY SCHUMANN, <sup>1</sup>LOUISE G. STABENAU (Chairman)

ASSOCIATE: GERTRUD SAKRAWA

INSTRUCTOR: URSULA L. JARVIS

A major in German is designed to provide the student with (1) the ability to comprehend and interpret both written and spoken German, (2) a fair amount of ease in expressing herself in German, in speaking as well as in writing and (3) a fundamental understanding of German literature and civilization.

A student majoring in German is expected to take 28 points of work above the elementary level. Normally these should include Courses 5, 6; 15, 16; 25, 26 or 27, 28; 31; 35; 45, 46.

Allied subjects: In consultation with their major adviser students should select courses in other languages and literatures, music, history of art, history, philosophy, and religion.

Students majoring in other fields in which a reading knowledge of German is suggested should plan to take at least two years of college German.

The major examination consists of two three-hour written sections and an oral section of at least one hour.

Foreign language requirement for the degree: All new students who intend to satisfy the foreign language requirement in German must take a placement examination before registration. This examination tests the student's knowledge of grammar, her ability to comprehend written and spoken German, and her ability in free composition. Students receiving a sufficiently high grade will automatically fulfill the requirement. All others may do so by completing German 5, 6 with a minimum grade of C—.

## LANGUAGE COURSES

German is the language of the classroom, as far as possible, in all courses beyond Course 1. All students in the beginners' course will be expected to use the facilities of the language laboratory.

### **1–2. Elementary Full-Year Course. 8 points. [15]**

Elements of grammar, easy reading, written and oral practice. PROFESSORS SCHUMANN and STABENAU, MISS SAKRAWA and MRS. JARVIS. Section I M W F 9. Section II M W F 11. Section III M W F 3. Required oral sections may be chosen as follows: Section I T Th 9. Sections II and III T Th 11. Section IV T Th 2. Section V T Th 3:35.

### **3, 4. Intermediate Course. 6 points. [15]**

Intensive and extensive reading of nineteenth and twentieth century literature. Frequent short compositions in German. Grammar review during autumn term.

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<sup>1</sup> Absent on leave, Autumn Term.

Prerequisite: Course 1–2 or two years of high school German. PROFESSORS STABENAU and SCHUMANN. Section I M W F 12. Section II M W F 1.

**3a, 4a. Intermediate Oral Practice. 2 points. [0]**

Conversation as extension of the work in Course 3, 4. Especially recommended to students preparing for courses in literature. Written permission of the instructor required. PROFESSOR SCHUMANN. T Th 11.

## LITERATURE COURSES

Courses marked thus § will satisfy the foreign language requirement, if a minimum of 6 points is taken, and a grade of C– or higher is obtained.

All courses are conducted in German except Course 55, 56.

**§5, §6. Introduction to the Study of German Literature from the Eighteenth Century to the Present. 6 points. [15]**

Intensive reading and discussion of significant works in prose, poetry and the drama. Short papers and oral reports in German. Occasional practice in the art of translation. Prerequisite: Courses 4 and 4a or a high grade in three years of high school German. PROFESSOR STABENAU and MISS SAKRAWA. Section I M W F 9. Section II M W F 10.

**[§15, §16. The Age of Goethe. 6 points. PROFESSOR SCHUMANN.**  
Not given in 1960-61.]

**[§25, §26. German Drama in the Nineteenth and Twentieth Centuries. 4 or 6 points. PROFESSOR STABENAU.**  
Not given in 1960-61.]

**§27, §28. Prose Fiction from the Eighteenth Century to the Present. [9]**  
6 points.

A critical study of representative works by Goethe, Kleist, Keller, Fontane, Thomas Mann, Hesse, Kafka, and others. Several short papers. Prerequisite: Course 5, 6 or the permission of the department. MISS SAKRAWA. T Th 2.

**[§R31. German Lyric Poetry. 2 or 3 points. MISS SAKRAWA.**  
Not given in 1960-61.]

**§35. Goethe's Faust. 2 or 3 points. [6]**

Intensive study of Parts I and II in relation to the poet's life and time with a comparative survey of the history of the Faust motive in earlier centuries. Three papers for the third point. Prerequisite: Course 5, 6 or the permission of the department. PROFESSOR STABENAU. T Th 9. Hour for third point to be arranged.

**§45, §46. History of German Literature from the Earliest Times to the Eighteenth Century. 6 points. [15]**

Study of representative works on the background of social and cultural conditions. Lectures and discussions. Prerequisite: Course 5, 6 or permission of the department. PROFESSOR SCHUMANN. T Th 3:10–4:25.



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[55, 56. **German Literature in English Translation.** 6 points. MRS. JARVIS.  
Not given in 1960-61.]

### GRADUATE COURSES

Certain graduate courses given at Columbia University are open to qualified seniors with the consent of the department and the Committee on Programs and Standing of Barnard College. A description of these courses will be found in the Announcement of the Graduate Faculties.

# GOVERNMENT

PROFESSORS: PHOEBE MORRISON (Chairman), THOMAS P. PEARDON

LECTURERS: JIRINA M. EMERSON, JIMMYE ELIZABETH KIMMEY, ELIZABETH STABLER

The department has defined a major in government as preparing a perceptive citizen for her role in the modern world, whether she intends to become a civil servant, a teacher or a lawyer, or to engage in any similar activity.

The foundation for a major in government is Course 1, 2 and Course 45, 46. In addition a student majoring in government must take at least two of the fundamental courses: international relations (11, 12), modern political movements (7, 8), the American constitutional system (25, 26), or political theory (31, 32). In her senior year, in order more adequately to explore techniques of investigation and to have an opportunity for more specialized work, she must take one section of the senior seminar. As part of the work of the senior seminar, she is required to write a senior essay, to be completed to the satisfaction of the department.

These requirements are so drawn as to permit a major in government, with the assistance of her adviser, to plan a program which will place special emphasis on particular interests, such as American government, international relations, or the political institutions of Western Europe.

A student may apply through appropriate channels for permission to take any course offered in the department, except Course 1, 2, for additional credit, after she has secured the permission of the instructor in that course. Such additional credit will be based either upon a special program of reading or the preparation of a special report.

Other social sciences: In view of the essential unity of the social sciences, every student majoring in government is required to take courses amounting to 12 points distributed between two of the following departments as selected in conference with the adviser: anthropology, economics, geography, history, philosophy, psychology, religion, sociology.

See also Other Interdepartmental Offerings, page 36, and International Relations, page 33.

## FUNDAMENTAL COURSES

### **1, 2. Modern Constitutional Democracies. 6 points. [15]**

Governmental institutions, popular representation and the theory of modern democracy in the United Kingdom, the United States, Canada, and France, with illustrative material from Australia and India. Together these courses satisfy the requirement in contemporary society. Course 1 is a prerequisite for Course 2. Course 1: PROFESSOR PEARDON and assistant; Course 2: PROFESSOR MORRISON and assistant.

Section I Lec. M W 10 and a conference hour M or W 11; for freshmen F 10.

Section II Lec. M W 2 and a conference hour M or W 10; for freshmen F 11.

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- 7. Modern Political Movements.** 6 points. [7]  
Recent changes in modern politics, such as the weakening of liberal democracy, the emergence of communism as a major force, the rise of fascism, and the growth of Christian democracy. Prerequisite: Course 1, 2 or History 1-2. PROFESSOR PEARDON. T Th 10:35-11:50.
- 9. American Political Parties and Practices.** 3 points. [5]  
Public opinion, the role of pressure groups, and the operation of the party system. First-hand observation of political campaigns and legislative bodies and civic organizations is required. Prerequisite: Course 1, 2 or History 9-10. May be counted towards the requirement in contemporary society. ————. M W F 2.
- 10. American State and Municipal Government.** 3 points. [5]  
American state and municipal government with illustrative material from the United Kingdom and France. Such modern problems as the revision of state constitutions and city charters, state-federal and state-municipal relations. Field work is required. Prerequisite: Course 9. May be counted towards the requirement in contemporary society. ————. M W F 2.
- 11. International Relations.** 3 points. [1]  
An analysis of the setting and basic factors in contemporary world politics. Open to all except freshmen. MISS KIMMEY. M W F 9.
- 12. International Organization.** 3 points. [1]  
An analysis of the proposals for reconstructing a stable international society. The experience of The Hague Conferences, the League of Nations, and the Organization of American States, as well as that of the United Nations. Open to all except freshmen. MISS KIMMEY. M W F 9.
- 25, 26. The Constitution of the United States.** 6 points. [6]  
Problems in the administration of justice and basic constitutional concepts are studied by the use of materials on constitutional interpretation. Designed for students of American government as well as for the pre-law candidate. Prerequisite: Course 1, 2, or History 9-10, or the equivalent. PROFESSOR MORRISON. T Th 9:10-10:25.
- 31, 32. The History of Political Thought.** 6 points. [3]  
Major political writings from ancient to modern times. Political doctrines such as democracy, liberalism, socialism, fascism, and communism. Emphasis on a comparison of basic ideas and on the relationships between theories and contemporary historical circumstances. Prerequisites: Course 1, 2 or History 1-2. MISS STABLER. M W F 11.
- 36. British Government.** 3 points. [7]  
Rules and institutions of the British cabinet system; parties and party politics; recent problems and policies. Prerequisite: Course 1, 2 or History 12. PROFESSOR PEARDON. T Th 10:35-11:50.



## SPECIALIZED COURSES

**15. The Soviet Union.** 3 points. [4]

Analysis is made of Soviet politics before and after Stalin; the current structure of Soviet ideology; the structure of the Party and the government; instruments for mobilizing mass support; the impact of politics on the economy, arts and the round of daily life; the limits of totalitarian control. Prerequisites: Course 1, 2 or History 1–2. MRS. EMERSON. M W F 1.

**16. The Communist Orbit.** 3 points. [4]

Study is made of the Communist regimes in China and Eastern Europe; the revolutionary and peaceful methods of seizing power; the Communist party and the patterns of political control; variations on the Soviet blueprint; national communism. Prerequisite: Course 15 or the permission of the instructor. MRS. EMERSON. M W F 1.

**17. Introduction to International Law.** 3 points. [9]

Such problems as recognition of states, legal status of dependent territories, control of war and new weapons, changing concepts of neutrality and other selected issues are studied through cases and state practice. Prerequisite: Course 11. MRS. EMERSON. T Th 2:10–3:25.

**20. The Soviet Union in World Affairs.** 3 points. [9]

Study is made of Soviet foreign policy since 1945, with special emphasis on the relation between Soviet diplomacy and international communism, the expansion of the “camp of socialism,” and recent penetration of the underdeveloped areas. Prerequisites: Course 1, 2 or History 1–2. MRS. EMERSON. T Th 2:10–3:25.

**35. Social Philosophy (same as Philosophy 23).** 3 points. [6]

The moral and religious implications as well as the broad social significance of “classical” political philosophy. Relying mainly on works by Hobbes, Locke, Rousseau, Bentham, and Marx, key notions will be examined, such as Sovereignty, Consent, General Will, Rights, Common Purpose, and the opposition of natural and positivist theories of law. PROFESSOR EMMET. T Th 9:10–10:25.

**45, 46. Junior Readings.** 4 points. [0]

Students will read selected classics. The reading lists for this course should be obtained by majors at the end of their sophomore year. Required of all majors in their junior year; open only to majors. MISS STABLER. M 3 or W 1 or Th 1.

**61, 62. Senior Seminar.** 6 points. [0]

Discussions and conferences on the topic of the senior essay.

Section I PROFESSOR MORRISON. Th 2–4

Section II PROFESSOR PEARDON. T 2–4.

## GRADUATE COURSES

Certain graduate courses given at Columbia University are open to qualified seniors with the consent of the department and the Committee on Programs and Standing of Barnard College. Ordinarily a minimum of 12 points of government

## BARNARD COLLEGE

at Barnard in addition to a major interest in the social sciences is required as a prerequisite. These courses are described in the Announcement of the Graduate Faculties. Attention is drawn to the following:

**★117. The Political Setting of Public Administration. 3 points.**

The fundamental relationships of administration. How administration is conditioned by the political and legal context of democratic government. The constitutional bases of administration, the representative and managerial roles of chief executives and the staffs, the political and managerial aspects of administrative structure, the dilemmas of legislative oversight and intervention, judicial review of administrative decisions, and the relationships of administrative agencies with political parties and with interest groups. PROFESSOR SAYRE. W 4:10-6.

**★118. The Managerial Aspects of Public Administration. 3 points.**

The managerial aspects of public administration within the distinctive legal and political context of democratic government. Structure and process as aspects of administrative organization; centralization and decentralization; the budget process as an instrument of coordination and control; personnel policies and the role of the bureaucracy; the roles of specialists and generalists in administration; and the relationships of administrative agencies with their clientele groups and with the general public. Prerequisite: Course ★117. PROFESSOR SAYRE. W 4:10-6.

**★179. Political Institutions of China. 3 points.**

An analysis of modern Chinese political developments with particular emphasis on the forces responsible for both the democratic and communist revolutions. PROFESSOR MORLEY. W 4:35-6:15.

**★180. Political Institutions of Japan. 3 points.**

The political structure of Japan under the Meiji Constitution, with special reference to the development of parties and the influence of special interests in government since 1890. The course will conclude with a brief survey of the post-war order and its prospects for permanence. PROFESSOR MORLEY. W 4:35-6:15.

# GREEK AND LATIN

PROFESSOR: JOHN DAY (Chairman)

LECTURER: ELIZABETH CONSTANTINIDES

OFFICERS OF COLUMBIA UNIVERSITY OFFERING COURSES OPEN TO BARNARD STUDENTS:

PROFESSORS: MOSES HADAS, GILBERT HIGHET

ASSOCIATE PROFESSOR: HOWARD N. PORTER

ASSISTANT PROFESSOR: CHARLES H. KAHN

INSTRUCTORS: WILLIAM M. CALDER, III, DANIEL GERSHENSON, THOMAS A. SUITS

The general objectives towards which the work of the department is directed are a knowledge of the language, literature, and civilization of the ancient Greeks and Romans. The emphasis varies in accordance with the student's interests.

A major in Greek: Twenty-four points in Greek and 4 points in archaeology or classical civilization or Greek history or Greek philosophy.

A major in Latin: Twenty-four points in Latin and 4 points in archaeology or classical civilization or Roman history.

A major in Greek and Latin combined: The following combinations are possible: (a) 18 points of Greek, 10 points of Latin; (b) 18 points of Latin, 10 points of Greek. No points in archaeology or classical civilization may count.

At least one course in Greek composition and one course in Latin composition are strongly recommended.

Other fields: The work in other fields will vary with the special interest of the student and should be arranged in consultation with the department. Students will find it profitable to take courses in Greek history, or in Roman history, or in both. A reading knowledge of French and German is advised.

The major examination at the end of the senior year consists of two three-hour examinations, the exact delimitation of which is determined by the special interests and preparation of the student, and by the major subject she chooses. In general, the examination will cover translation into English; translation of English into one or the other or both of the classical languages; ancient history and civilization; literature, with a more searching examination in a "special author" to be chosen by the student. The department will, upon request, provide a list of suggested readings which should be of assistance in preparation for the examination.

Columbia University is a Supporting Institution of the American School of Classical Studies at Athens and the American Academy in Rome, and the advantages of those schools are open, without fee, to graduates of Barnard College.

Foreign language requirement for the degree: All new students who intend to satisfy the foreign language requirement in Greek or Latin must take a placement examination before registration. This examination tests the student's knowledge of grammar and her ability to translate written Greek or Latin. Students receiving a sufficiently high grade will automatically fulfill the requirement. All



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others may fulfill the requirement by completing Greek 11, 12 or Latin 11, 12 with a minimum grade of C—.

### CLASSICAL CIVILIZATION

**R58. Masterpieces of Greek Thought.** 3 points. [3]

A study of great Greek books and compositions of smaller compass, from the point of view of thought. Aristotle's *Ethics* and *Poetics* and selected plays of the great dramatists. May be counted towards the non-literature requirement in the humanities. PROFESSOR DAY. M W F 11.

### GREEK LANGUAGE AND LITERATURE

Written permission of the department required for all language courses. Courses marked thus § will satisfy the foreign language requirement, if a minimum of 6 points is taken and a grade of C— or higher is obtained.

**1–2. Elementary Full-Year Course.** 8 points. [5]

Grammar, composition, and reading. Course 1 is prerequisite to Course 2. ————. M W F 2, and a fourth hour to be arranged.

**§R11. Plato: Apology; Euripides: One Play.** 3 points. [2]

Prerequisite: Course 1–2 or three years of high school Greek or permission of the department. Course ★19–20 is strongly recommended as a parallel course. PROFESSOR DAY. M W F 10.

**§R12. Selections from Homer and Herodotus.** 3 points. [2]

Prerequisite: Course 1–2 or three years of high school Greek or permission of the department. Course ★19–20 is strongly recommended as a parallel course. PROFESSOR DAY. M W F 10.

**★19–20. Prose Composition: First Course.** 4 points.

Particularly recommended to students who have taken only Course 1–2. PROFESSOR KAHN. Th 1:10–2:50.

**§21. Greek Tragedy.** 3 points. [3]

Prerequisite: Courses 11 and 12 or permission of the department. ————. M W F 11.

**§22. Greek Historians.** 3 points. [3]

Prerequisite: Courses 11 and 12 or permission of the department. ————. M W F 11.

Courses 21, 22 and 25 (Greek Oratory), 26 (Greek Comedy) are offered in alternate years.

**[★29–30. Prose Composition: Advanced Course.** 4 points.

Not given in 1960-61.]

## LATIN LANGUAGE AND LITERATURE

Written permission of the department required for all language courses. Courses marked thus § will satisfy the foreign language requirement, if a minimum of 6 points is taken and a grade of C– or higher is obtained.

- 1–2. Elementary Full-Year Course.** 6 points. [4]  
Grammar, composition, and reading. Course 1 is prerequisite to Course 2.  
MISS CONSTANTINIDES. M W F 1.
- 3. Vergil: Selections from Aeneid I–VI.** 3 points. [5]  
Prerequisite: Two or three years of high school Latin or the equivalent. Course ★19–20 is strongly recommended as a parallel course. \_\_\_\_\_,  
M W F 2.
- 4. Cicero: Selections; Ovid: Selections.** 3 points. [5]  
Prerequisite: Two or three years of high school Latin or the equivalent. Course ★19–20 is strongly recommended as a parallel course. \_\_\_\_\_,  
M W F 2.
- §11. Selections from Latin Literature.** 3 points. [4]  
Prerequisite: Course 3 or 4 or four years of high school Latin. Course ★19–20 is strongly recommended as a parallel course. \_\_\_\_\_, M W F 1.
- §12. Horace: Odes and Epodes.** 3 points. [4]  
Prerequisite: Course 3 or 4 or four years of high school Latin. Course ★19–20 is strongly recommended as a parallel course. PROFESSOR DAY. M W F 1.
- ★19–20. Prose Composition: First Course.** 4 points.  
Strongly recommended as a parallel to Courses 3, 4 and 11, 12. \_\_\_\_\_,  
Th 1:10–2:50.
- §21. Juvenal: Selections; Martial: Selections; Pliny: Selections.** 3 points. [6]  
Prerequisite: Courses 11 and 12 or permission of the department. \_\_\_\_\_,  
T Th 9:10–10:25.
- §22. Cicero: Selected Letters; Ovid, Fasti: Selections.** 3 points. [6]  
Prerequisite: Courses 11 and 12 or permission of the department. \_\_\_\_\_,  
T Th 9:10–10:25.  
Courses 21, 22 are rotated in a three-year cycle with Courses 25 (Horace: Satires and Epistles); 26 (Roman Drama); 27 (Lucretius; Catullus); 28 (Tacitus).
- ★29–30. Prose Composition: Advanced Course.** 4 points.  
Prerequisite: Course 19–20 or the equivalent. MR. GERSHENSON. Th 1:10–2:50.

## GRADUATE COURSES

Certain graduate courses given at Columbia University are open with the consent of the department and the Committee on Programs and Standing of Bar-

## BARNARD COLLEGE

nard College to qualified seniors. Their description may be found in the Announcement of the Graduate Faculties. The following courses are recommended for students who have the written permission of the department:

- ★Classical Literature 237, 238. The Classical Tradition in European and American Literature. 6 points. PROFESSOR HIGHET. T Th 10.
- ★Classical Literature 255A. Classical Epic and its Influences. 3 points. PROFESSOR PORTER. M W 10.
- ★Classical Literature 256. The Classical Drama and its Influences. 3 points. PROFESSOR HADAS. M W 10.
- ★Greek 103, 104. Greek Literature, Part I: Poetry. 6 points. DR. CALDER. M F 3.
- ★Greek 111, 112. Homer's Iliad. 6 points. PROFESSOR PORTER. W 6:30—8.30 p.m.
- ★Latin 101, 102. Literature of the Roman Republic. 6 points. PROFESSOR HIGHET. M 4:10—6.
- ★Latin 111, 112. Vergil. 6 points. PROFESSOR HIGHET. W 4:10—6.



# HISTORY

PROFESSORS: <sup>1</sup>RENÉ ALBRECHT-CARRIÉ, <sup>1</sup>BASIL RAUCH

VISITING PROFESSOR OF AMERICAN STUDIES: DANIEL AARON

ASSOCIATE PROFESSORS: SIDNEY A. BURRELL, VIRGINIA D. HARRINGTON,  
CHILTON WILLIAMSON (Chairman)

ASSISTANT PROFESSOR: LOUISE ELLIOTT DALBY

INSTRUCTOR: FRANCIS RANDALL

LECTURERS: ANNETTE KAR BAXTER, HARRIET T. BJELOVUCIC, IRENE L. GENDZIER

OFFICERS OF COLUMBIA UNIVERSITY OFFERING COURSES OPEN TO BARNARD  
STUDENTS:

ASSOCIATE PROFESSOR: MORTON SMITH

INSTRUCTOR: FRED BRONNER

As the record of the past, history touches on all aspects of human activity. The study of history is calculated to give an understanding of the functioning of man in society through an appreciation of his past achievements and a sense of continuity combined with diversity. The basic issues that confront human society have changed but little in historic times, but their setting is forever different.

A major in history: In order to acquire a broad understanding of historical development and some acquaintance with the technique of historical study, a student majoring in history is required to take the following:

- (a) Three fundamental courses: European history (1–2), American history (9–10; 33–34; 45–46; or 55–56), and either ancient or medieval history;
- (b) Two courses in the category of specialized courses to be chosen with a view to concentration in the broad fields of either American or European history;
- (c) One seminar for the purpose of gaining insight into the technique of more advanced work and as an introduction to specialized study and research. In connection with this seminar a student majoring in history is also required to write a senior essay which will be appraised by the department.

In view of the close relation of the disciplines that go under the name of social sciences, a student majoring in history is also required to elect 12 points distributed in two social sciences other than history.

NOTE: These broad requirements retain sufficient flexibility to be adjustable to the needs of students with a special interest in a particular field or area, e.g., classical civilization, cultural history, the Near East, etc.

Special program in history: Under this program the student will take four fundamental courses, both seminars in her field of concentration, and will be given a program of readings to be done during the summers of the sophomore and junior years. The student will be examined on these readings during the spring of her senior year. A committee of the department will decide on the successful completion of this program, recognition of which will be in the form

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<sup>1</sup> Absent on leave, 1960-61.

## BARNARD COLLEGE

of a special certificate. Students interested in the special program should consult the Chairman of the department.

Combined majors: With the work in history students may combine work in other departments to make up a group of correlated courses on some large subject, such as ancient history and philosophy or art; modern history and international relations, economics or sociology; English history and literature or government; American history and economics; the history of thought and culture. See also Other Interdepartmental Offerings, page 36.

### INTRODUCTORY COURSES

#### **1-2. Survey of Modern European History from the Age of Discovery to the Outbreak of the Second World War. 6 points. [16]**

Autumn Term: Foundations of modern Europe; from the fifteenth century to the eighteenth; the British, American, and French Revolutions; Napoleon; the Congress of Vienna. Spring Term: Industrial Revolution; rise of nationalism; social, intellectual, and economic problems of the nineteenth century; imperialism and world politics; the world wars and the twentieth century transition. PROFESSORS WILLIAMSON, BURRELL, DALBY, MRS. GENDZIER, MRS. BJELOVUCIC and -----.

Section I M W F 9.

Section V M W F 1.

Section II M W F 10.

Section VI M W F 2.

Section III M W F 11.

Section VII T Th 9:10-10:25.

Section IV M W F 12.

Section VIII T Th 2:10-3:25.

#### **★5-6. Ancient History: A Survey of the Ancient Mediterranean World. 6 points.**

Autumn Term: From the appearance of written records in Egypt and Mesopotamia, through the development of Greek civilization to the accession of Alexander the Great. Spring Term: Pre-Roman Italy; rise of Rome from a fortified village to ruler of the "known world," the character of the Roman Empire and the causes of its dissolution; the beginnings and triumph of Christianity. PROFESSOR SMITH. M W F 9.

#### **7-8. Medieval Thought, Culture, and Science. 3 points. [1]**

An examination of intellectual life in the Middle Ages, from the end of the Roman Empire to the fifteenth century, with special attention to the history of scientific thought and the origins of modern science. ----- M W F 9.

#### **[9-10. History of the American Nation from Colonies to World Power.**

6 points. PROFESSOR RAUCH.

Not given in 1960-61.]

### SPECIALIZED COURSES

#### **11, 12. England from the Norman Conquest to the Twentieth Century. [6]** 6 points.

A survey of the evolution of England and the British Isles from the medieval

## HISTORY

Norman monarchy through world-wide domination to the beginning of the welfare state. PROFESSOR BURRELL. T Th 9:10–10:25.

[15, 16. **The Renaissance and the Reformation.** 6 points.

Not given in 1960-61.]

★19, 20. **The History and Culture of Latin America.** 6 points.

Autumn Term: Indian and Iberian backgrounds; conquest of America; cultural clash and fusion; topical analysis of colonial institutions, society, arts; eighteenth-century reforms; war for independence. Spring Term: Historical survey of nations and regions (1825–1950), followed by thematic treatment of modern Latin America's peoples and customs, institutions, economy, religion, cultural expression, international relations. MR. BRONNER. T Th 11–12:15.

25, 26. **Europe since 1870.** 6 points. [2]

Internal evolution of the principal powers; Bismarck's Germany; imperialism and the rival alliances. First World War: the peace settlements; the League, the apparent liquidation of the war; new political systems; collapse of the nineteen-thirties. Second World War and its legacy. Prerequisite: Course 1–2. PROFESSOR DALBY. M W F 10.

[27, 28. **The French Revolution and Napoleon.** 6 points. PROFESSOR DALBY.

Not given in 1960-61.]

[29, 30. **The Modern Mediterranean World.** 6 points. PROFESSOR CARRIÉ.

Not given in 1960-61.]

33–34. **Studies in American Colonial History.** 6 points. [5]

Economic, religious, social, and intellectual aspects of colonial culture. The Revolutionary Movement: ripeness of the colonies for rebellion; organization of resistance; the clash of ideas and arms; internal significance of the Revolution and its subsequent influence. Prerequisite: Course 9–10 or its equivalent. PROFESSOR HARRINGTON. M W F 2.

35, 36. **History of the British Empire.** 6 points. [3]

An historical survey from Tudor times to the Second World War, with special attention to those phases of the subject less likely to be familiar to American students. Preceding or parallel: Course 1–2. PROFESSOR WILLIAMSON. M W F 11.

37, 38. **History of Russia.** 6 points. [1]

A history of the Russian people, state, and culture from their origins to the present. Autumn Term: Russia to 1900. Spring Term: Revolutionary and Communist Russia. Prerequisite: Course 1–2 or an equivalent course. MR. RANDALL. M W F 9.

43. **The History of Education in the United States.** 3 points. [4]

Development of education in the United States against the background of political, philosophical, religious, and scientific thought. Emphasis upon the social and



## BARNARD COLLEGE

intellectual forces which have shaped education. PROFESSOR HARRINGTON.  
M W F 1.

**45–46. Studies in the Middle Period of American History.** 6 points. [10]  
Economic, social, political, and cultural aspects of American history from the establishment of the Constitution in 1789 to the collapse of Reconstruction in 1876. Prerequisite: Course 9–10, or an equivalent course. PROFESSOR WILLIAMSON. M W F 3.

**[53, 54. History of United States Foreign Relations.** 6 points. PROFESSOR RAUCH.  
Not given in 1960-61.]

**[55–56. Studies in Modern American History.** 6 points. PROFESSOR RAUCH.  
Not given in 1960-61.]

**58. History of Religion in America (same as Religion 58).** 3 points. [4]  
History of religious thought and institutions in the United States from colonial times to the present. Special attention will be paid to developments of the nineteenth and twentieth centuries. PROFESSOR HARRINGTON. M W F 1.

## SEMINARS

Admission to the seminars is by permission of the department. History majors should file application with the Chairman in the spring of their junior year, indicating the order of their choice of seminars.

History majors are also eligible to fulfill seminar requirements by enrolling in the senior seminar in British Civilization on written permission of the Chairman of the Committee on British Civilization.

**81, 82. Seminar in Historiography.** 8 points. [0]  
Readings and research into the ideas and methods of historical study from the beginnings of western civilization to the twentieth century. Introduction to historical criticism. PROFESSOR BURRELL. Th 4–6.

**83, 84. Seminar in American Studies.** 8 points. [0]  
Readings in primary sources on diverse aspects of American civilization and presentation of results for seminar discussion. PROFESSOR AARON. W 4–6.

**85, 86. Seminar in European Civilization.** 8 points. [0]  
Research into the literature of European issues such as nationalism, socialism, and the balance of power. Presentation of results for seminar discussion. PROFESSOR DALBY. T 4–6.

**87, 88. Colloquium in the Literature of American History.** 8 points. [0]  
Extensive reading and discussion in American historiography, including such classic figures as Bancroft, Parkman, Prescott, and Hildreth, as well as more recent writers. Introduction to historical criticism. PROFESSOR HARRINGTON. W 4–6.

## GRADUATE COURSES

Certain graduate courses given at Columbia University are open to qualified seniors with the consent of the department and the Committee on Programs and Standing of Barnard College. Ordinarily a minimum of 18 points in history at Barnard, or in special cases, the equivalent thereof in courses in other social sciences, is required as a prerequisite. A description of the graduate courses will be found in the Announcement of the Graduate Faculties.

## HYGIENE

MARJORY J. NELSON, M.D., College Physician

**1. Hygiene.**      2 points. [12]

A study of the principles of physical and mental health.

This course is required of all freshmen and of all sophomores who have not passed the exemption test.      DR. NELSON.      Section I    T Th 10.      Section II  
M W 3.      Section III    W F 2.

# ITALIAN

ASSOCIATE PROFESSOR: MARISTELLA DE PANIZZA BOVÉ (Chairman)

ASSISTANT PROFESSOR: ELIZABETH CZONICZER

ASSISTANT: JOAN FERRANTE

A major in Italian is expected to attain (a) sufficient knowledge of the language to enable her to read, write, and speak it, (b) a fundamental acquaintance with Italian literature, (c) a fair ability in understanding and interpreting literary texts in Italian. The requirement for majors includes Courses 11–12; 13–14; 15–16 and ★193–194, as well as cognate courses in other departments which are to be chosen in consultation with the Chairman of the department.

The major examination consists of four hours of written work and an oral examination.

Foreign language requirement for the degree: All new students who intend to satisfy the foreign language requirement in Italian must take a placement examination before registration. This examination tests the student's knowledge of grammar, her ability to comprehend written and spoken Italian, and her ability in free composition. Students receiving a sufficiently high grade will automatically fulfill the requirement. All others may do so by completing a full-year literature course, given in Italian, with a minimum grade of C–.

## LANGUAGE COURSES

**1–2. Elementary Full-Year Course.** 6 (for seniors) or 8 points. [17]

Grammar, easy reading, conversation. Work in the language laboratory is part of the course. This course may not be taken parallel to Spanish 1–2. Seniors with adequate linguistic background may take this course for 6 points. Grammar: PROFESSOR CZONICZER. M W F 9. Poetry reading: PROFESSOR BOVÉ. T 9. Language laboratory: Th 9.

**3–4. Intermediate Course.** 6 points. [2]

An introduction to Italian literature, a review of grammar, intensive and extensive reading, translations, compositions, and oral reports. Prerequisite: Course 1–2, or the passing of an examination. PROFESSOR CZONICZER. M W F 10.

**[7, 8. Composition and Advanced Translation.** 2 points. PROFESSOR BOVÉ.

Not given in 1960-61.]

## LITERATURE COURSES

Courses marked thus § will satisfy the foreign language requirement, if a minimum of 6 points is taken and a grade of C– or higher is obtained.

**[§9. Studies in Italian Prose.** 3 or 4 points PROFESSOR CZONICZER.

Not given in 1960-61.]



- R10. Studies in Italian Poetry.** 2 or 3 points. [6]  
 Analysis of selected Italian lyrics from Petrarca, Poliziano, Tasso, Alfieri, Foscolo, Leopardi, Saba, Ungaretti. PROFESSOR BOVÉ. Th 8:45–10:25.
- §11–§12. Dante, Petrarca, Boccaccio.** 6 or 8 points. [7]  
 Reading and analysis of the *Inferno*, twenty cantos of *Purgatorio*, and ten cantos of *Paradiso*. Selected lyrics from the *Canzoniere*. Analysis of selected novelle from the *Decameron*. PROFESSOR BOVÉ. T Th 10:35–11:50.
- [§13–§14. Italian Renaissance.** 6 or 8 points. PROFESSOR BOVÉ.  
 Not given in 1960-61.]
- [§15–§16. Italian Literature from 1600 to 1850.** 6 or 8 points. PROFESSOR BOVÉ.  
 Not given in 1960-61.]
- 20. Italian Drama.** 2 or 3 points. [6]  
 Goldoni and the *Commedia dell'Arte*, Alfieri, the romantic drama, Pirandello, contemporary dramatists. Lectures and discussions. PROFESSOR BOVÉ. Th 8:45–10:25.
- 21. Dante, Petrarca and their World.** 2 or 3 points. [17]  
 Religious and ethical implications of Dante's and Petrarca's poetry. Given in English for students with no knowledge of Italian. PROFESSOR BOVÉ. T 3:10–4:50.
- 22. Italian Renaissance and its Classical Background.** 2 or 3 points. [17]  
 Readings of Italian poets (Marullo, Pontano, Poliziano, Lorenzo, Ariosto, Tasso) and of Italian writers (Machiavelli, Guicciardini, Castiglione, Bembo) will be paralleled by readings of Vergil, Ovid, Horace, Livy, Tacitus, Homer, Herodotus, Thucydides, Theocritus, Plato and Plutarch. Given in English for students with no knowledge of Italian. PROFESSOR BOVÉ. T 3:10–4:50.

## GRADUATE COURSES

Certain graduate courses given at Columbia University are open to qualified seniors with the consent of the department and the Committee on Programs and Standing of Barnard College. A description of these courses will be found in the Announcement of the Graduate Faculties. The following are recommended:

- ★G.S. 101–102. A Survey of the History of Italian Literature** (in Italian). 3 points. PROFESSOR MARRARO. T 7–8:40 p.m.
- ★103. History of the Italian Language.** 3 points. PROFESSOR PEI. Th 4:30–6:10.
- ★G.S. 152. Italian Literature from Post-Romanticism to Neo-Realism** (in Italian). 3 points. PROFESSOR RAGUSA. S 11–12:40.
- ★153–154. Contemporary Italian Literature.** 6 points. PROFESSOR RICCIO. W 6:30–8:20 p.m.

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★167–168 (same as **Philosophy 167–168**). **Philosophical Literature of the Renaissance.** 6 points. PROFESSOR KRISTELLER. T Th 1.

★171–172. **Italian Romanticism: Foscolo, Manzoni, Leopardi** (in Italian). 6 points. PROFESSOR DE'NEGRI. T Th 5.

★193–194. **Intensive Analysis of Italian Masterpieces.** 6 points.  
Discussion of selected works of the Italian Renaissance. PROFESSOR BOVÉ.  
M 5–6:40.

LATIN (SEE GREEK AND LATIN)

# MATHEMATICS

PROFESSOR: EDGAR R. LORCH (Chairman)

ASSOCIATE PROFESSOR: JOANNE ELLIOTT

INSTRUCTOR: EVA W. GRAY

LECTURER: PHYLLIS RUBIN

OFFICERS OF COLUMBIA UNIVERSITY OFFERING COURSES OPEN TO BARNARD STUDENTS:

PROFESSORS: HERBERT ROBBINS, PAUL SMITH

ASSOCIATE PROFESSORS: RICHARD KADISON, HOWARD LEVI

INSTRUCTORS: EDWARD ASSMUS, HYMAN BASS, JOHN GRAY, ELLIOTT MENDELSON

A major in mathematics. A student majoring in mathematics will be required to take a minimum of 28 points, including the calculus sequence or the equivalent, and, in addition, courses selected with the approval of the department. For additional information regarding courses in mathematics, the student is urged to consult the current Announcements of Columbia College, the School of General Studies, and the Graduate Faculties.

Other fields: Usually it is advantageous to supplement the mathematical studies with work in allied subjects. For example, courses in physics, chemistry, or statistics are frequently elected. Those interested in the field of computing machines may consult the bulletin of the Watson Scientific Computing Laboratory for courses in this area of applied mathematics. The choice of these related courses will vary with the interests of the student and must be chosen in consultation with the department.

The major examination will be in two parts: (1) The Graduate Record Examination; (2) an oral examination administered by the department.

## 1. Trigonometry. 3 points. [1]

Trigonometric functions, logarithms, solutions of triangles, identities, trigonometric equations, graphs of the trigonometric functions, complex numbers, De Moivre's theorem. Students who have had a standard course in trigonometry should take Course 30. DR. GRAY and MISS RUBIN. M W F 9.

## R6. Algebra and the Theory of Equations. 3 points. [6]

The complex number system, theory of equations, determinants, mathematical induction, permutations and combinations, probability. Recommended for those students in the biological and social sciences who can devote only a limited amount of time to mathematical studies. Prerequisite: Algebra through quadratic equations. MISS RUBIN. T Th 9:10–10:25.

## 7–8. Mathematical Analysis. 6 points. [2]

Designed to give the student who intends to take only one year of college mathematics as broad a view as possible of the nature of mathematics. Topics from algebra, trigonometry, analytic geometry, differential and integral calculus. Not recommended for students of the physical sciences and not open to students



## BARNARD COLLEGE

who have had trigonometry or who are planning to major in mathematics.  
DR. GRAY. M W F 10.

### 30 (or R30). Calculus I. 3 points. [12]

Topics covered will include: coordinates in the plane, loci and their equations, straight lines, conic sections, translations and rotations; limits and derivatives; differentiation of algebraic functions with applications to tangents, maxima and minima, curve tracing, and rectilinear motion. Prerequisite: Course 1 or its equivalent. PROFESSORS LORCH and ELLIOTT, and DR. GRAY.

Autumn Term (R30): Section I T Th 9:10–10:25. Section II M W F 1.

Spring Term (30): M W F 9.

Both terms: Fourth hour to be arranged.

### 31 (or R31). Calculus II. 3 points. [12]

Topics covered will include: polar coordinates; differentiation of logarithmic and trigonometric functions and their inverses; differentials; indeterminate forms; introduction to integration and application of the integral to area, volume, and arc length. Prerequisite: Course 30. PROFESSORS LORCH and ELLIOTT, DR. GRAY, and MISS RUBIN.

Autumn Term (31): T Th 10:35–11:50.

Spring Term (R31): Section I M W F 9. Section II M W F 1.

Both terms: Fourth hour to be arranged.

### 32 (or R32). Calculus III. 3 points.

Topics covered will include: further applications of the definite integral; infinite series; vectors and solid analytic geometry. Prerequisite: Course 31. PROFESSOR ELLIOTT and MISS RUBIN.

Autumn Term (R32): M W F 2. [5]

Spring Term (32): T Th 10:35–11:50. [7]

### 33 (or ★26). Calculus IV. 3 points.

Topics covered will include; partial derivatives; multiple integrals and line integrals; applications to geometry and physics. Prerequisite: Course 32.

Autumn Term (33): DR. GRAY. M W F 11. [3]

Spring Term (★26): PROFESSOR SMITH. Lec. T Th 9 and a recitation hour T or Th 8 or W 12.

### 34. Calculus V. 3 points. [10]

An introduction to various branches of mathematical analysis. Partial differentiation and multiple integrals and their applications to geometry and physics; line and surface integrals, the theorems of Green and Stokes; Fourier series; Legendre polynomials and Bessel functions. Prerequisite: Course 33. DR. GRAY. M W F 3.

### 60. Introduction to Modern Mathematics. 3 points. [6]

The study of various mathematical theories developed essentially during the present century. These include logic, axiomatics, set theory, abstract algebra, topology,

relativity. Philosophical problems of the structure of mathematics will be illuminated by a discussion of non-euclidean geometry and the foundations crisis. Prerequisite: Course 32 and permission of the instructor. PROFESSOR LORCH. T Th 9:10–10:25.

**★101. Introduction to Number Theory.** 3 points.

Congruences, structures of residue class groups, quadratic reciprocity, Dirichlet's prime number theorem, and quadratic number fields. Prerequisite: Course 32. DR. MENDELSON. T Th 11–12:15.

**★102 (or ★R102). Introduction to Algebra.** 3 points.

Determinants and matrices, linear transformations; quadratic forms; polynomials. Prerequisite: Course 32. ★102: DR. JOHN GRAY. T Th 11–12:15. ★R102: DR. MENDELSON. T Th 7:10–8:25 p.m.

**★105. Elements of the Theory of Functions of Complex Variables.** 3 points.

For those who need a working knowledge of the theory of functions of complex variables as an instrument for the physical sciences and engineering. The subjects treated are: geometry and algebra of the complex plane; derivatives and the Cauchy-Riemann equations; conformal mapping; elementary functions; the Cauchy integral theorem and formula; contour integration and residues; singularities and power series expansions; Riemann surfaces. Prerequisite: Course 33. PROFESSOR ELLIOTT. M W F 10.

**★107 (or ★R107). Probability.** 3 points.

A basic course on the mathematical theory of probability. Random variables and distribution functions in one or more dimensions. The binomial, normal and Poisson laws. Combinatorial problems. Moments and characteristic functions. Stochastic convergence and the law of large numbers. Addition of chance variables and limit theorems. The chi-square,  $t$ , and  $F$  distributions. ————. ★107: M W 5:40–6:55. ★R107: T Th 11–12:15.

**★R108 Introduction to Mathematical Statistics.** 3 points.

Statistical inference regarded as a mathematical discipline based on the theory of probability. Sampling from finite and infinite populations, deductions from population to sample: population moments vs. sample moments, sampling distributions. Inferences from sample to population: estimation of population parameters, testing hypotheses, confidence intervals. Linear regression. Nonparametric methods. Elements and examples of a general theory of statistical decision. Prerequisite: Course ★R107. PROFESSOR ROBBINS. T Th 11–12:15.

**★123–124 (or ★R124–R123). Advanced Calculus.** 6 points.

The differential and integral calculus in Euclidean spaces, with emphasis on the geometric point of view. The necessary algebra of vector spaces; the intrinsic geometry of the differential of a smooth transformation; the inverse function theorem. Taylor's theorem, with application to extremal problems. The integration of differential forms; the exterior differential, and Stokes' theorem. The transformation of integral formula. Other topics, and applications to the geom-

## BARNARD COLLEGE

etry of surfaces and problems of mathematical physics will be treated if time permits. Prerequisite: Calculus through partial derivatives and multiple integrals.

★123–124: DR. ASSMUS. M W 11–12:15.

★R123: DR. MENDELSON. T Th 7:10–8:25 p.m.

[★R124: Not given in 1960-61.]

**★127 (or ★R127). Differential Equations. 3 points.**

The integration of ordinary differential equations, principally by formal methods. Applications to geometry and physics. Prerequisite: Partial derivatives and multiple integrals.

★127: —————. T Th 5:40–6:55.

★R127: PROFESSOR ELLIOTT. M W F 10.

**★128. Partial Differential Equations. 3 points.**

Methods of solving partial differential equations, with applications to problems in geometry and mechanics. Prerequisite: Course ★127 or ★R127 or the equivalent.

—————, T Th 5:40–6:55.

**★131 (or ★R131). Fundamental Concepts of Mathematics. 3 points.**

Topics include: sets, mappings, relations, ordered sets, well-ordering, natural numbers, cardinal and ordinal numbers, choice functions, Zorn's lemma, induction, real and complex numbers. Prerequisite: Course 33.

★131: DR. JOHN GRAY. T Th 2:40–3:55. ★R131: PROFESSOR LEVI. T Th 5:40–6:55.

**★161–162. Analysis. 9 points.**

Elements of general topology. Theory of functions of one and several real variables: continuity, differentiation, Riemann integration, functional equations and dependence. Development of the theory of measure and integration; the Lebesgue integral in  $n$ -dimensional space; theorems of Fubini, Riesz-Fischer, Egoroff, Radon-Nikodym; elements of Fourier analysis; integration in groups. Radon measures and Daniell integrals. Prerequisite or parallel: Course ★131. PROFESSOR KADISON. M W 1:10–2:25.

**★164. Theory of Functions of a Complex Variable. 4½ points.**

Analytic functions, the Cauchy theory of complex integration, Riemann surfaces, conformal mapping. Prerequisite: Course ★161. PROFESSOR LORCH. T Th 2:40–3:55.

**★167–168. Algebra. 9 points.**

Notions of group, ring, field, module, vector space, algebra, polynomial. The Galois theory and linear algebra. Prerequisite or parallel: Course ★131. DR. BASS. T Th 1:10–2:25.



# MUSIC

PROFESSOR: OTTO LUENING

ASSISTANT PROFESSOR: HUBERT DORIS (Chairman for Barnard)

INSTRUCTOR: GENEVIEVE CHINN

ASSISTANT: BARBARA FRIEDMAN

OFFICERS OF COLUMBIA UNIVERSITY OFFERING COURSES OPEN TO BARNARD STUDENTS:

PROFESSORS: WILLIAM J. MITCHELL, DOUGLAS STUART MOORE (Chairman)

ASSOCIATE PROFESSOR: JACK BEESON

ASSISTANT PROFESSOR: EDWARD LERNER

INSTRUCTORS: CHRISTOPHER HATCH, JOEL NEWMAN, F. MARK SIEBERT,  
PETER WESTERGAARD

ASSOCIATE: RUDOLPH THOMAS

TEACHING STAFF IN APPLIED MUSIC:

EVERETT ANDERSON. Voice

ALTA HILL. Piano

FRANK SHERIDAN. Piano

F. MARK SIEBERT. University Chorus

ELIAS DANN. University Band

M. SEARLE WRIGHT. Organ; Chapel Choir

A major in music is designed to integrate music as an art and a craft within the framework of the liberal arts.

A student intending to major in music should plan to take Courses 1–2 and R31 in the freshman year followed by Course R32 in the sophomore year, as these courses are prerequisite to the advanced courses in literature, theory, and history which are normally included in a major program.

In general, major programs are planned to include 28 points of advanced work (exclusive of applied music and Course 1–2) in literature, history, and in theory. Ordinarily Courses ★23–24, 31–32, R32a–R33a, ★R33, ★R34, ★35, and ★73–74 are required. (Courses ★36 and 39–40 are required of students intending to specialize in composition.) Course R26 is highly recommended as an elective. Applied music courses (a maximum of 12 points) may be counted towards the degree but are not required.

Other fields: A reading knowledge of German, Italian, or French is required. Students planning to do graduate work in musicology must know at least two foreign languages, including German and French. Courses in fine arts, history, philosophy, literature, and foreign languages are recommended for their relationship with musical studies, and should be elected after consultation with the department.

At the end of the junior year students majoring in music will be expected to file with the department certificates stating that they have passed an examination in elementary piano and that they have participated for two years in the

## BARNARD COLLEGE

chorus, orchestra, choir, or concert band. (The two-year requirement applies to the Class of 1963 and all thereafter.)

Students majoring in music are required to take a major examination at the end of the senior year which will test their ability to deal primarily with problems in music history, theory, and analysis.

Practice rooms: The department provides practice rooms at a nominal charge for use of students of applied music. Preference in assigning hours is given in order of application to those enrolled in courses given by the department. Application for practice time should be made to the office of Buildings and Grounds, Milbank Hall, during registration and the first week of classes.

Library: Books, scores, and records are available at the Barnard College library. The Columbia Department of Music maintains in 701 Journalism a lending library of books and scores. In addition, phonographs with a large collection of records are available to students.

**Collegium Musicum.** The aim of this organization is to acquaint the students with certain neglected and unfamiliar masterpieces of vocal and instrumental music, in order to supplement concert and recital programs to be heard in the city and elsewhere. All students majoring in music are required to attend the meetings and are urged to participate actively in performances. Students in other departments are also welcome. Emphasis is placed upon a variety of compositions and not on finished performance. The literature to be used embraces music from medieval times to the present day.

## LITERATURE AND HISTORY

### 1-2. An Introduction to Music. 6 points.

A study of the elements of musical structure designed to form intelligent listening habits. The spring term is devoted to a study of selected masterpieces of the several great epochs of music, with emphasis on their style and structure. No previous knowledge of music is required. This course satisfies the non-literature requirement in the humanities. PROFESSOR DORIS, MISS CHINN, and MISS FRIEDMAN. Section I M W F 10. [2]. Section II M W F 11. [3]. One hour per week of supervised listening.

### 4. Literature of the Pianoforte. 2 points. [3]

Study of selected works of piano music from the eighteenth century to the present. PROFESSOR DORIS. M W 11.

### 5. The Opera. 3 points. [4]

A rapid survey of the development of opera from Monteverdi to the present. Prerequisite: Course 1-2 or the equivalent. PROFESSOR LUENING. M 1, W 1-3 and a listening hour F 1.

### ★6. The Symphony. 3 points.

A survey of symphonic style and structure from about 1750 to the present. Prerequisite: Course 1-2 or the equivalent. In conjunction with Course ★8 will satisfy the non-literature requirement in the humanities. PROFESSOR MITCHELL. M W F 1 and a listening hour F 2.

- ★8. Contemporary Music.** 2 points.  
A survey of contemporary music from Debussy to the present. Prerequisite: Course 1–2 or the equivalent. In conjunction with Course ★6 will satisfy the non-literature requirement in the humanities. PROFESSOR MOORE. T Th 11, listening hour Th 12.
- ★9. The Heritage of Music.** 2 points.  
An inquiry into the various forms of musical expression, designed for the non-specializing student as a continuation of Course 1–2. Selected compositions from the Renaissance to the present day. Prerequisite: Course 1–2 or the equivalent. PROFESSOR MOORE. T Th 11.
- [12. Haydn and Mozart.** 3 points. PROFESSOR LUENING.  
Not given in 1960-61.]
- 14. Chamber Music.** 3 points. [9]  
A survey of the significant literature of chamber music. Prerequisite: Course 31 or the equivalent. PROFESSOR LUENING. T 2–4, Th 2, listening hour Th 3.
- ★23–24. History of Music.** 6 points.  
A survey of the history of music from the beginning of the Christian era to the nineteenth century. One hour of class time each week will consist of musical illustration. Prerequisite: Course 31–32 or the equivalent. PROFESSOR LERNER. T Th 9–11.
- R26. Nineteenth Century Music.** 3 points. [3]  
A history of music in the Romantic Era. This course is designed as a continuation of Course ★23–24, but may be taken separately and at any time after completion of Course 32. PROFESSOR DORIS. M W F 11.
- 79–80. Seminar. Historical and Analytical Studies in the Literature of Music.** 4 points. [0]  
Required seminar for senior majors to supplement and coordinate previous studies. PROFESSOR DORIS and MISS CHINN. Th 3:40–5:30.
- ★107. Bach.** 2 points.  
Study by analysis, discussion and performance of the chief works of Johann Sebastian Bach. Prerequisite: Course 31–32 or the equivalent. PROFESSOR MOORE. M W 3.
- [★108. Twentieth-Century Tendencies in Music.** 3 points. PROFESSOR BEESON.  
Not given in 1960-61.]

## THEORY

- 31–32. Harmony.** 6 points. [4]  
A study of triads, tones of figuration, dissonance, and modulation. One hour each week is devoted to ear training. Students who register must be able to play the piano. Written permission of the instructor required. MR. NEWMAN and MISS CHINN. M W F 1.



## BARNARD COLLEGE

**R31–R32. Harmony.** 6 points. [2]  
The subject matter of 31–32, starting in the spring term. MR. HATCH.  
M W F 10.

**R32a. Harmony at the Keyboard.** 2 points. [0]  
A laboratory course featuring the subject matter of R32 as applied to the keyboard. Practice in sight-reading, analysis at the keyboard, harmonization of melodies, and thorough-bass realization. Prerequisite: Course 31. Preceding or parallel: Course 32. MISS CHINN. M W 12.

**★R33. Advanced Harmony.** 3 points.  
An analytical study of the elements of chromaticism. The exercises in various styles are taken from the literature and are designed to introduce the student to characteristic features of musical texture. Prerequisite: Course 31–32 or the equivalent. Course 32 must have been passed with a grade of B– or better. Parallel, advised but not required: Course ★35, 36. PROFESSOR MITCHELL.  
M W F 10.

**R33a. Harmony at the Keyboard.** 2 points. [0]  
A laboratory course featuring the subject matter of ★R33 as applied to the keyboard. Prerequisite: Course 31–32. Preceding or parallel: Course ★R33. MISS CHINN. M W 12.

**★R34. Analysis.** 3 points.  
Principles of design, texture, rhythm, and the organization of musical detail as revealed through a study of compositions selected from the several periods of musical history. Prerequisite: Course ★R33. Recommended, but not required: Course ★35, 36. PROFESSOR MITCHELL. M W F 10.

**★35, 36. Counterpoint.** 6 points.  
A study of the five species in two and three parts, strict style. During the spring term students analyze and compose polyphonic pieces in various styles. Prerequisite: Course 31–32 or the equivalent. MR. SIEBERT and MR. WESTERGAARD.  
M W F 12.

**39–40. Composition.** 4 points. [0]  
Composition in the smaller forms, for voice, chorus, piano, organ, and pieces for violin or other instruments with piano. Prerequisite: Course ★R33 or written permission of the instructor. This course may be repeated for credit. PROFESSOR LUENING. M 3–5.

**★73–74. Orchestration, Conducting, and Score Reading.** 6 points.  
Lectures and practice in orchestration and score reading, supplemented by practical demonstrations of instruments. Prerequisite: Course 31–32 or the equivalent and written permission of the instructor. MR. THOMAS. Section I M 2–4, W 2. Section II M F 7–8:25 p.m.

**★131–132. Advanced Composition.** 6 points.  
Free compositions in the larger forms, including fugue, for piano, organ, instrumental ensembles, and voices. Prerequisite: Course 39–40 or the equivalent and written permission of the instructor. PROFESSOR BEESON. F 10–12.

## APPLIED MUSIC

**NOTE:** Each course in applied music must be taken parallel to a theoretical or historical course in music in order to count towards the degree. A maximum of 12 points may be so counted. No student may register for a course in vocal, organ, or piano instruction without consultation with the department as early in the registration period as possible. 601 Journalism. Hours to be arranged with the instructor.

**81, 82. Vocal Instruction.** 2 points. (See Note above.)

Private lessons in voice production and in interpretation. Coaching and repertoire. Special fee, \$100 each session; no refunds. MR. ANDERSON.

**83, 84. Organ Instruction.** 2 points. (See Note above.)

Individual instruction in the technique of the instrument and a weekly class lesson, or lecture recital, on the interpretation of the works of representative organ composers. Consult the Columbia Music Department about registration and fees. MR. WRIGHT.

**91, 92. Piano Instruction.** 2 points. (See Note above.)

Private lessons in technique, sight reading and repertoire. Special fee, \$100 each session; no refunds. MISS HILL.

**93, 94. Piano Instruction for Advanced Students.** 2 points. (See Note above.)

Private lessons in the technique of the instrument and in interpretation. Coaching and repertoire. Special fee, \$160 each session; no refunds. MR. SHERIDAN.

## PERFORMANCE ACTIVITIES

**Columbia University Orchestra.**

In addition to regular rehearsals for public concerts, there are reading and workshop sessions in which compositions will be studied with no eye towards public performance.

Membership is open to all members of the University community, including students, faculty, staff and alumni, who can meet the musical qualifications. A limited number of persons interested in managerial work can gain experience as orchestra librarians, personnel managers, and business managers. PROFESSOR SHANET. Rehearsals: M W 5:30–7:30 p.m. McMillin Theatre.

**Columbia University Chorus.**

The purpose of the group is the study and presentation of serious choral works from all periods of musical literature. Two concerts are given in McMillin Theatre each year, as well as performances with various organizations. Informal reading sessions are also held. Membership is open to all members of the University family: graduate and undergraduate students, faculty, staff, and alumni. MR. SIEBERT. M Th 6:30–8:30 p.m. 408 Barnard.

The time and place of auditions will be announced in 601 Journalism during the week before registration.

## BARNARD COLLEGE

**Chapel Choir:** The Chapel Choir sings regularly on Sunday mornings at the 11 o'clock service and on Monday, Wednesday and Friday at noonday services. The Choir also gives several special Sunday evening musical services. Other functions include choral performances at University Convocations, appearances at the Cathedral of St. John the Divine, etc. Applicants must have ability to sight-read music. All men and women students of the University are eligible. Regular members of the Choir who can participate on a full-time basis receive \$200 for the academic year. For further information consult Mr. Wright, Organist and Choirmaster of St. Paul's Chapel.

Auditions will be held in the Chapel Crypt Friday, September 23, from 2–5 and Monday through Wednesday, September 26–28, from 10–12 and 2–5. Rehearsals: Monday, Wednesday and Friday, 5–6:15, Sunday, 9:45 a.m. in the Chapel Crypt.

### **University Band.**

The Concert Band begins rehearsals November 1 with membership open to all men and women in Columbia University. Two concerts are given in McMillin Theatre and five weekly afternoon concerts are presented on the campus in the spring.

An audition schedule will be posted on the bulletin board of the Columbia Music Department during the registration period. MR. DANN. T Th 4–6. 113 Low Library.

### **Glee Club.**

Open to all members of Barnard College, the Glee Club will supply an opportunity for amateurs and music majors alike to participate in choral singing. Under the direction of Mr. John Parella, the Glee Club will meet on Tuesdays and Thursdays from 6:30–8.30 p.m. in the College Parlor. Programs with other colleges are planned. Preliminary interviews with Mr. Parella will be announced during the week of registration.

### **Music for an Hour.**

This series of informal chamber concerts, held once a month in the James Room of Barnard Hall, are designed to give all interested instrumentalists a chance to perform for the University community. All those interested in participating should consult Professor Doris during the first month of the term.



# ORIENTAL STUDIES

ASSISTANT PROFESSOR: JOHN MESKILL (Representative)

OFFICERS OF COLUMBIA UNIVERSITY GIVING INSTRUCTION JOINTLY TO BARNARD  
AND COLUMBIA STUDENTS:

ASSOCIATE PROFESSOR: WM. THEODORE DE BARY

ASSISTANT PROFESSORS: MAAN Z. MADINA, ROYAL WEILER

INSTRUCTOR: AINSLIE T. EMBREE

## **Oriental Civilizations 35–36.** 8 points. [16]

The more important factors in the contemporary life of peoples of India, China, and Japan, together with an appraisal of their role in the world today. Autumn Term: The evolution of these civilizations to recent times, emphasizing their characteristic institutions and intellectual traditions. Spring Term: developments in the nineteenth and twentieth centuries as these societies have confronted the modern West while still grappling with age-old problems. Fourth hour: Consultation and audio-visual illustrations. Prerequisite: History 1–2 and six points in some other social science. PROFESSORS DE BARY and MESKILL and MR. EMBREE. Section I M W F 9. Section II M W F 2. Fourth hour to be arranged.

## **★Oriental Humanities 39–40.** 8 points.

A selection from the works of Near Eastern, Indian, Chinese, and Japanese authors. This course will be conducted as a colloquium and will be devoted to readings in translation and discussion of major works in the literature, philosophy and religion of several oriental traditions. The autumn term will deal with works from the Near East and India; the spring term with readings from China and Japan. Open to juniors and seniors who have completed six points of literature and three points of philosophy or religion, or written permission of instructor. PROFESSORS DE BARY, MADINA, MESKILL and WEILER, and MR. EMBREE. Section I M 3–5. Section II F 3–5.

# PHILOSOPHY

VISITING PROFESSORS: DOROTHY M. EMMET, MILTON C. NAHM

ASSOCIATE PROFESSOR: JOSEPH GERARD BRENNAN (Chairman)

ASSISTANT PROFESSORS: JUDITH JARVIS, JEAN A. POTTER, <sup>1</sup>H. STANDISH THAYER

The major in philosophy is designed to give the student knowledge of the systems of speculative thought framed by the principal thinkers of western civilization; to acquaint her with important problems concerning the scope and reliability of human knowledge, the nature of reality, and the meaning of moral, aesthetic, and religious values; and to provide her with training in philosophical techniques appropriate to these problems. To achieve these objectives, majors in philosophy are required to take both historical and systematic courses in the subject.

A student majoring in philosophy is required to take the following courses, or their equivalents: 1; 5; 22; 61, 62, and in the senior year, the seminar, 65—66. Passing of a six-hour written major examination at the end of the senior year is required. Qualified senior majors are encouraged to enroll in philosophy courses offered by the Graduate Faculties of Columbia University. Permission for such enrollment should be obtained from the Chairman of the Barnard department.

## 1 (or R1). Introduction to Philosophy. 3 points.

A survey of the various divisions of philosophic inquiry, including discussion of representative problems of knowledge, nature, and value. PROFESSORS BRENNAN and JARVIS and -----.

Section I	M W F 9.	[1]	Section III	M W F 11.	[3]
Section II	M W F 10.	[2]	Section IV	T Th 9:10—10:35	[6]

## 4. Metaphysics. 3 points. [7]

An examination of some of the critical problems of metaphysics, with reference to important classic and modern treatments. Prerequisite: Course 1 or the equivalent. PROFESSOR POTTER. T Th 10:35—11:50.

## 5. Logic. 3 points. [4]

Presented as a formal science, logic will be distinguished from the methodology of the empirical sciences. Analysis of the formal elements of classical logic will be followed by a brief introduction to symbolic logic. PROFESSOR BRENNAN. M W F 1.

## R6. Theory of Knowledge. 3 points. [5]

Problems of mind and matter, Scepticism and Phenomenalism. Readings from contemporary British and American sources. Prerequisite: Course 1. PROFESSOR JARVIS. M W F 2.

## [8. Philosophy of Science. 3 points. PROFESSOR THAYER.

Not given in 1960-61.]

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<sup>1</sup> Absent on leave, 1960-61.

## PHILOSOPHY

**9. Philosophy of Religion** (same as **Religion 13**). 3 points. [7]

The metaphysics of theism; a systematic study of concepts related to the existence and nature of God. The possibility of reasonable grounds for religious belief and the religious use of symbol and analogy will be examined. Prerequisite: Course 1 or permission of the instructor. PROFESSOR POTTER. T Th 10:35–11:50.

**22. Ethics.** 3 points. [5]

Discussion of the nature of moral evaluation, and the justification of moral judgments. Readings in classical and contemporary texts. Prerequisite: Course 1. PROFESSOR JARVIS. M W F 2.

**23. Social Philosophy** (same as **Government 35**). 3 points. [6]

The moral and religious implications as well as the broad social significance of "classical" political philosophy. Relying mainly on works by Hobbes, Locke, Rousseau, Bentham, and Marx, key notions will be examined, such as Sovereignty, Consent, General Will, Rights, Common Purpose, and the opposition of natural and positivist theories of law. PROFESSOR EMMET. T Th 9:10–10:25.

**R41. Philosophy of Art.** 3 points. [12]

Study and discussion of a number of ancient and modern interpretations of the nature of art. An attempt will be made to formulate and apply the concepts of truth, beauty, and meaning to the objects of aesthetic experience. Open to juniors and seniors, and to qualified sophomores on written permission of the department. PROFESSOR NAHM. Th 3–5 and conference hour.

**43. Philosophical Implications of the Modern Novel.** 3 points. [3]

The following themes will be developed: the relation of man to nature and to art; the role played in human affairs by moral standards and values; conceptions of the dignity of man; the effect of political forces upon the individual person. Selected works of Joyce, Mann, Hesse, Gide, Malraux, Greene, and other important European novelists of the twentieth century will be discussed. Not open to freshmen. PROFESSOR BRENNAN. M W F 11.

**61, 62. History of Philosophy.** 6 points. [2]

Autumn Term: Greek philosophy from Thales to Plotinus. Spring Term: Medieval and modern philosophy from Augustine to Hegel. Course 61 is a prerequisite for Course 62. PROFESSOR POTTER. M W F 10.

**63, 64. Supplementary Readings in Philosophy.** 2 points. [0]

This course may be taken only in connection with some other course in philosophy, and with the permission of the department. PROFESSOR JARVIS, or the instructor in the course to which the extra hours of reading are attached. Hour to be arranged for individual or group conferences.

**65–66. Senior Seminar.** 6 points. [0]

Required of all majors in the senior year. PROFESSOR POTTER. T 3–5 and conference hours to be arranged.



## BARNARD COLLEGE

**76. Twentieth Century Philosophy.** 3 points. [5]

A study of philosophies of evolution, process, existence, dialectical materialism, naturalism, and logical empiricism. Readings will include selections from writings of Bergson, Whitehead, Heidegger, Ayer, representative Marxist philosophers, and critical naturalists. Prerequisite: Courses 1 or 61, 62. PROFESSOR BRENNAN. M W 2 and conference hour.

**84. The Philosophy of Education.** 3 points. [4]

The values and goals of education; a study of contemporary problems against their historical backgrounds. Selections from the works of Plato, Aristotle, Locke, Rousseau, Newman, and Dewey, as well as contemporary critics. PROFESSOR BRENNAN. M W F 1.

# PHYSICAL EDUCATION

ASSOCIATE PROFESSORS: MARGARET HOLLAND (Chairman), MARION STRENG

ASSISTANT PROFESSOR: FERN YATES

ASSOCIATE: EDITH D. GENTRY

INSTRUCTORS: PHYLLIS M. BIGEL, MARION R. PHILIPS, JANIS STOCKMAN

The program is organized and administered by the Department of Physical Education, the Medical Department and the Executive Board of the Athletic Association. It is designed to provide the students with knowledge, skills, habits and attitudes concerning health, physical activity, and recreation.

The Faculty requires physical education during the freshman, sophomore, and junior years. Students are not recommended for the degree if they fail to fulfill this requirement.

The College does not offer a major in physical education. Students who are interested in entering this field should consult a member of the department. Since the objectives and scope of the work in modern dance and fencing are related to practical theatre, students who major in English and specialize in drama are urged to take courses in this area.

**Medical examinations and posture analysis:** Three complete medical examinations by the College Physician are required of all students during the four years. Two complete posture examinations are required by the Department of Physical Education by the end of the sophomore year. The results of these examinations are expressed in terms of a health and activity grade which determines the program best suited to the individual.

**Freshman requirement:** Three hours per week on different days. During the first term two of these hours are prescribed body mechanics and rhythmic fundamentals. The third hour is elective.

Section I	M W 1.	Section IV	T Th 9.
Section II	M W 2.	Section V	T Th 11.
Section III	M W 3.	Section VI	T Th 3.

**Sophomore and Junior requirement:** Two hours per week on different days.

**Registration\*\*:** Held in the Gymnasium, Barnard Hall, as follows:

Autumn Term:	Friday, September 30 Monday, October 3, classes begin
Spring Term:	Wednesday, February 8 Thursday, February 9, classes begin

**Program of activities:** Two sessions each term: Fall-winter: winter-spring.

The program is posted on the Physical Education bulletin board two weeks prior to the registration dates.

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\*\* Freshmen register for the autumn term at the time of their conferences with the Class Adviser and the Chairman of the department.

## BARNARD COLLEGE

Fall and Spring: archery; body mechanics; correctives; golf; modern dance; swimming—all levels, including synchronized swimming, water safety instructor's course; tennis; volley ball.

Winter each term: archery (indoor); badminton; basketball; bowling (special fee—\$6.50); conditioning exercises; correctives—fencing; folk-square dance; golf; Greek Games—athletics and/or dance; modern dance; swimming—all levels, including synchronized swimming, Red Cross life-saving, water safety instructor's course (continued); tennis; volley ball.

In all of these activities students are advised to register according to their skill level i.e., beginning, intermediate, or advanced.

**Prescribed costume:** Students are required to wear the regulation costume indicated for the various activities classes. Approximate cost is \$15. For further information see Handbook.



# PHYSICS

PROFESSOR: HENRY A. BOORSE (Chairman)

INSTRUCTOR: DANIEL GREENBERG

ASSISTANT: THEODORA SHPIZ

OFFICERS OF COLUMBIA UNIVERSITY OFFERING COURSES OPEN TO BARNARD STUDENTS:

PROFESSORS: HENRY M. FOLEY, POLYKARP KUSCH, LEON M. LEDERMAN,  
SHIRLEY L. QUIMBY, CHIEN SHIUNG WU

ASSOCIATE PROFESSORS: LUCY J. HAYNER, ALLAN M. SACHS

ASSISTANT PROFESSOR: GERALD FEINBERG

The demand for well-trained women in the field of physics continues to exceed the supply. Laboratories operated by the Departments of the Navy, Air Force, and Army, the Atomic Energy Commission, and by many industrial firms offer excellent opportunities at various levels of training. Medical physics constitutes an important and growing field of specialization, while teaching at the high school or college level offers challenging positions for those more concerned with academic work. For the student interested in scientific ideas and with good facility in mathematics, physics offers expanding opportunities for a stimulating and rewarding career.

A student majoring in physics should begin with Courses 3–4; ★7, ★8 and ★9–10; a student with superior preparation may, on approval of the department, substitute Course ★6 for 3–4. Courses to complete the major include ★63–64, ★67–68 and others arranged as far as possible in accordance with the student’s interest and preparation.

Other fields: Mathematics: a minimum of 15 points including Courses 30; 31; 32; 33 or the equivalent. Calculus is a corequisite or prerequisite for Physics ★6 and beyond. Chemistry: one year’s work. A course in the biological sciences is recommended.

The major examination consists of the Graduate Record Examination in physics and an oral examination covering the general fields of study taken to satisfy the major requirement.

**3–4. General Physics. 9 points. [2]**

Autumn Term: Mechanics, heat and sound. Spring Term: Optics and electricity. Preceding or parallel: mathematics through trigonometry. PROFESSOR BOORSE, DR. GREENBERG, and assistant. Lec. M W F 10. Lab. (3 hours) M 2–5, T 9–12 and 2–5, Th 9–12 and 2–5.

**3a–4a. General Physics. 6 points. [2]**

Lectures identical with those of Course 3–4. No laboratory work. To follow or parallel a laboratory science. PROFESSOR BOORSE, DR. GREENBERG, and assistant. M W F 10.

## BARNARD COLLEGE

NOTE: The following courses require the permission of PROFESSOR BOORSE.

**★6. General Physics, I. Mechanics and Heat. 4 points.**

Fundamental laws of mechanics; kinematics; dynamics; work, energy, and power. Elasticity; hydrostatics. Temperature; calorimetry; change of state; gas laws. Prerequisite: Mathematics 30 or equivalent; parallel, Mathematics 31 or equivalent. No credit if preceded by Course 3—4. PROFESSOR SACHS. Lec. M W F 9. Two consecutive hours' supervised problem work to be arranged.

**★7. General Physics, II. Electricity and Magnetism. 3 points.**

Wave motion and sound; electrostatics; direct currents; electromagnetism; alternating currents. Prerequisite: Course 3—4 or ★6. Parallel: Course ★9 and Mathematics 32 or equivalent. PROFESSOR SACHS. Lec. M W F 9.

**★8. General Physics, III. Light and Atomic Physics. 3 points.**

Lenses and optical systems, interference and diffraction of light, atomic structure and spectra, nuclear phenomena, elementary particles. Prerequisite: Course ★7. Parallel: Course ★10. PROFESSOR SACHS. Lec. T Th 10 and a recitation hour to be arranged after the first meeting.

**★9, 10. Physical Laboratory. 3 points.**

Selected quantitative experiments in mechanics, heat, electricity, optics, atomic and nuclear physics. Prerequisite: Course 3—4 or ★6. Parallel: Course ★7, 8. PROFESSOR SACHS. Three consecutive hours to be arranged after the first lecture in Course ★7, 8.

**20. The Concepts of Modern Physics. 3 points. [4]**

An introduction to the experimental and theoretical foundations of modern physics. A survey of the basis of classical physics followed by discussion of properties of many-body systems, relativity, early quantum theory, quantum mechanics and its probabilistic interpretation, quantum statistics, symmetries and conservation laws, quantum fields. Emphasis on the underlying ideas of these theories. Prerequisite: One year each of introductory physics and calculus and permission of the instructor. PROFESSOR BOORSE and DR. GREENBERG. M F 1.

**★59. Light. 3 points**

Physical and geometrical optics. Prerequisite: General physics and integral calculus. PROFESSOR LEDERMAN. Lec. M W 2:10—4.

**★63—64. Mechanics. 6 points.**

An introduction to analytical mechanics. The course deals with statics, kinematics, and kinetics of the particle and rigid body and certain problems of elastic bodies. Prerequisite: General physics and integral calculus. PROFESSOR QUIMBY. M W F 10.

**★67—68. Theory of Electricity and Magnetism. 6 points.**

A discussion of the phenomena of electrostatics, current flow, and electromagnetism, and the description of these phenomena in mathematical terms. The treatment is directed towards the formulation of Maxwell's equations. Considerable emphasis will be placed on alternating-current circuits, transmission lines, the

motion of charged particles in electric and magnetic fields, and applications to vacuum tube circuits. Prerequisite: Any intermediate course in electricity and magnetism (Course ★7 is equivalent) and differential and integral calculus. PROFESSOR KUSCH. T Th 8:35–9:50.

**★72. Seminar in Current Research Problems.** 2 points.

This seminar will be devoted to a detailed study of a selected field of active research in physics. The motivation, techniques, and results obtained to the present, as well as the difficulties and unsolved problems in this particular field, will be discussed in an informal manner. Prerequisite: At least two terms' work in physics courses numbered above 50. Registration limited to 15 students. Admission only with permission of the instructor. PROFESSOR ————— and —————. W 4:10–5:25.

**★81, 82. Intermediate Laboratory Work.** 4 or 8 points.

Experiments will be available in geometrical and physical optics, vacuum tubes and their circuits, atomic physics, and nuclear physics. An individual program of experiments will be arranged for each student in accordance with her interests and previous experience. Immediately after registration and not later than the end of the second day after the beginning of classes, the registrant should consult Professor Hayner about assignment to a laboratory section and the schedule of experiments to be performed. One four-hour laboratory period weekly for each 2 points to be arranged in consultation with instructor. PROFESSOR HAYNER. T 1:10–5; W 1:10–5; Th 6:30–10:30 p.m.; F 1:10–5; S 10–2.

## GRADUATE COURSES

For further information consult the Announcement of the Graduate Faculties.

**★113. Thermodynamics.** 3 points.

PROFESSOR BOORSE. T F 2:10–3:30.

**★115. Atomic Physics.** 3 points.

PROFESSOR —————. M W F 11.

**★116. Elementary Quantum Mechanics.** 3 points.

PROFESSOR —————. M W F 11.

**★140 or R140. Nuclear Physics.** 3 points.

PROFESSOR —————. (Spring Term). PROFESSOR —————. (Autumn Term). T Th 11–12:15.



# PSYCHOLOGY

PROFESSOR: RICHARD PARDEE YOUTZ (Chairman)

ASSOCIATE PROFESSORS: <sup>1</sup>TRACY S. KENDLER, ROSEMARY PIERREL

ASSISTANT PROFESSORS: BARBARA S. CANNELL, J. GILMOUR SHERMAN, THOMAS J. TIGHE

LECTURER: \_\_\_\_\_

ASSISTANTS: JOY ARDZROONI, VIVIAN J. BIGOTTO, MICHAEL LEFFAND, BARBARA S. RAY, KATHLEEN RIORDAN, ALICE WIGOD

A major in psychology: The student majoring in psychology studies the basic principles, methods, and findings of psychology and is introduced to their most important applications.

In the work of the major, several kinds of interests are recognized. The groupings of courses given below are arranged in accordance with these interests; the student should select one of the plans (a), (b), (c), or (d). In addition to the offerings listed in this announcement, advanced senior students with special interests may take appropriate courses in the graduate school.

(a) General major. A student completing this major will have a good general background for activities in psychology or related fields such as education, business, school psychology, psychometrics, personnel and social work, and similar areas. The major may be completed by fulfilling the following requirements:

Psychology. Courses 1; 7–8; 10; 11; either 57 or 68, and other courses selected in consultation with the department to complete the required 28 points.

Other fields. One course in philosophy (3 points) or Anthropology 1–2; a laboratory course (8 points) in zoology, physics, or chemistry. (For transfer students a laboratory course in biology will fulfill this requirement of the department.)

(b) Students who plan to obtain post-graduate professional training in school psychology, vocational or rehabilitation counseling, or educational guidance should, in addition to the courses required for the general major, include Courses 15; 27, and at least two of the following: Courses 21; 26; 28; 37.

(c) Students interested in professional work in business or personnel may modify the requirements of the general major so that the required work in other fields is as follows: Economics 1–2; 17, 18; and either 19 or 20.

(d) Students who wish to take post-graduate work in experimental or clinical psychology should add the following to the requirements for the general major: Courses 57 and 68. In other fields work should include: full-year laboratory courses in two of the following: zoology (or biology), physics, or chemistry; mathematics through Course 31 (Calculus II); one course in philosophy (3 points).

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<sup>1</sup> Absent on leave, 1960–61.

The major examination. This consists of sections on: (1) general information and integration (three hours); (2) experimental design and techniques (one hour); and (3) areas of special interest (one hour). Students fulfilling any one of the four plans will have completed preparation for the major examination.

**1 (or R1). Introduction to Psychology.** 3 points. [11]

An introduction to the chief facts, principles, and problems of human behavior, through systematic study of a text, lectures, exercises, brief participation in a current investigation, and reading in special fields. Prerequisite for all other courses. PROFESSORS CANNELL, PIERREL, SHERMAN, TIGHE, and YOUTZ, and -----.

Autumn Term (1):	Section I	M W F 9.	Section III	M W F 11.
	Section II	M W F 10.	Section IV	T Th 10:35–11:50.
Spring Term: (R1):	Section I	M W F 9.	Section III	M W F 11.
	Section II	M W F 10.	Section IV	T Th 10:35–11:50.

**7–8. Experimental Psychology.** 8 points. [11]

The chief problems, methods, and results of experimental psychology. Each student conducts a series of typical individual experiments, participates in certain group experiments, prepares systematic reports of results, and is introduced to the literature of experimental psychology. Prerequisite: Course 1 or the equivalent. Written permission required for specific section. Students are expected to remain in the same section both terms. PROFESSORS PIERREL, SHERMAN, TIGHE, and -----.

Section I	M W 1–4.	Section II	T Th 9–12.
Section III	T Th 9–12.	Section IV	T Th 2–5.

**10. Introduction to Psychological Statistics.** 3 points. [1]

Designed to acquaint students with quantitative methods in psychology and allied subjects. Topics included are a review of basic statistics, psychological scaling methods, statistical estimation and prediction, testing hypotheses, measuring reliability and validity, and theory of test construction. Prerequisite: Course 7. PROFESSOR SHERMAN. M W F 9.

**11 (or R11). Psychological Tests.** 3 points. [10]

An introduction to standardized psychological testing with emphasis on construction methods, validation procedures, areas of application. Demonstrations and practice in test administration acquaint students with testing techniques. Each student must bring an adult and a child to the laboratory for testing at times other than those scheduled for the class. Prerequisites: Courses 7–8; 10. PROFESSOR CANNELL. M W 2–4.

**15. Psychology of Learning.** 3 points. [3]

The chief problems, methods, and results in the study of learning. Among the topics emphasized are basic learning principles, theories of learning, retention, transfer of training, thinking and problem-solving. The relation of these basic concepts to educational problems is stressed. Prerequisite: Course 1 or the equivalent. Open to all except freshmen. PROFESSOR TIGHE. M W F 11.

**21. Abnormal Psychology.** 3 points. [8]

The field of psychopathology, history, more common forms of mental inade-

## BARNARD COLLEGE

quacy and disturbance and their psychological interpretation, including principles of mental hygiene and psychotherapy. Each class makes a trip to a mental hospital for clinical demonstration of certain psychoses. Open to juniors and seniors who have had Course 1. PROFESSOR YOUTZ. T Th 11, and consultation in connection with readings for the third point.

**24. Applied Psychology.** 2 or 3 points. [6]

Applications of psychology to problems of efficient study, of vocational guidance and selection, personnel, industrial efficiency, advertising and selling, clinical work, treatment of delinquents and criminals, and other problems of practical interest. Prerequisite: Course 1 or the equivalent. PROFESSOR TICHE. T Th 9, and conferences on a project or paper for the third point.

**26. Psychology of Personality.** 3 or 4 points. [3]

Contemporary theories of the development and organization of personality and their relation to other forms of psychological theory. Consideration is given to practical aspects of personal adjustment as it is influenced by changing social pressures. Prerequisite: Course 1 or the equivalent. PROFESSOR CANNELL. M W F 11, and conferences in connection with a paper for the fourth point.

**27. Developmental Psychology. I.** 4 points. [2]

Study of the origin and development of psychological processes with particular emphasis on the period from infancy through early childhood. The laboratory consists of the observation and measurement of children's behavior in the nursery school. Prerequisite: Course 1 or the equivalent. PROFESSOR CANNELL and assistants. Lec. M W F 10. Lab. (2 hours) T W Th or F 2-4.

**27a. Developmental Psychology. I.** 3 points. [2]

Lectures identical with those of 27. No laboratory work. Prerequisite: Course 1 or the equivalent. PROFESSOR CANNELL. M W F 10.

**28. Developmental Psychology. II.** 4 points. [2]

A continuation of the study of the development of psychological processes with emphasis on the period from early childhood through adolescence. The laboratory consists of the observation of both exceptional and normal children at various age levels and in a variety of educational and institutional settings. Prerequisite: Course 27. PROFESSOR CANNELL and assistants. Lec. M W F 10. Lab. (2 hours) to be arranged.

**28a. Developmental Psychology. II.** 3 points. [2]

Lectures identical with those of 28. No laboratory work. Prerequisite: Course 27 or 27a. PROFESSOR CANNELL. M W F 10.

**32. Physiological Psychology.** 4 points. [9]

Behavior as related to the physical structures and the physiology of the organism. Functional neuroanatomy and receptor processes will constitute the two major divisions of the course. Laboratory work will include dissection of the sheep's brain and demonstrations of electrical activity in the central nervous system. Prerequisite: Course 7-8, or written permission of the instructor. PROFESSOR PIERREL. T 2 and Th 2-5. Conferences in connection with reports for the fourth point.



## PSYCHOLOGY

- 37. Social Psychology.** 3 or 4 points. [6]  
An introduction to the study of social behavior. Among the topics considered are communication, social learning, interaction, mass behavior, and leadership. Experimental contributions to the understanding of social phenomena are emphasized. Prerequisite: Course 1. May be counted towards the requirement in contemporary society. PROFESSOR SHERMAN. T Th 9:10–10:25, and conference hour in connection with a project or paper for the fourth point.
- 41–42. Field Work at Payne Whitney Clinic.** 6 points. [11]  
Students will spend two afternoons a week at the Payne Whitney Psychiatric Clinic of the New York Hospital. This work is designed to improve the student's understanding of the work on psychiatric hospital wards. Prerequisite: Courses 7–8, and 21 and written permission of PROFESSOR YOUTZ. T 2:45–5:45 and one other afternoon, M Th or F 2:45–5:45.
- 47. Advanced Experimental Problems.** 3 points. [0]  
Original investigations will be planned and undertaken in learning, reasoning, perception, and other areas of interest to the individual class members. Designed chiefly for students who intend to do graduate work in psychology or related fields, or who show interest and capability in the conduct of research. Open on written permission of the instructor to students who have had Course 7–8. PROFESSOR YOUTZ. W 3–5.
- 48. Individual Projects.** 1, 2, or 3 points. [0]  
Research projects will be planned in consultation with members of the department. Open to majors who have had Course 7–8, on written permission of the member of the department who supervises the project. PROFESSORS CANNELL, PIERREL, SHERMAN, TIGHE, and YOUTZ. Hours to be arranged.
- 57. Systems of Psychology.** 3 points. [4]  
A comparative summary of the more influential schools and points of view in psychology, past and present. Each student prepares a paper reporting on an important person, institution, or subject matter area. Prerequisite: Course 7–8 or the equivalent. PROFESSOR YOUTZ. M W 1.
- 68 (also ★108). Case Histories in Experimental Design.** 3 points. [8]  
Discussion of stages in the experimental development of psychological concepts. Nonstatistical analysis of procedures and justifiable conclusions at stages of: speculation, measurement, observed relation, experiment, and theory construction. Application to articles in current journals, both experimental and clinical. Each student will choose an area of interest and prepare a paper reporting on its origins and present status. Prerequisite: Course 7–8 or the equivalent. PROFESSOR YOUTZ. T Th 11.

## GRADUATE COURSES

Certain graduate courses given at Columbia University are open to qualified seniors with the consent of the department and the Committee on Programs and Standing of Barnard College. These courses are described in the appropriate graduate Bulletin.

## *BARNARD COLLEGE*

★121–122. **Laboratory Course in Clinical Psychological Testing.** 6 points.  
DR. OUTHIT. Conference and three hours of laboratory to be arranged.

★133–134. **Advanced Abnormal Psychology.** 6 points.  
PROFESSOR ZUBIN. Th 4:10–6.

★161. **Basic Concepts in Modern Psychology.** 3 points.  
PROFESSOR KELLER. M F 10.

★165–166. **Advanced Social Psychology.** 6 points.  
PROFESSOR KLINEBERG. M 4:10–6.

★Ed. 261KE. **Speech Development and Correction.** 2 or 3 points.  
PROFESSOR ZIMMERMAN. F 7:30–9:10 p.m.

# RELIGION

ASSOCIATE PROFESSOR: URSULA M. NIEBUHR (Chairman)

INSTRUCTOR: HAROLD STAHLER

OFFICERS OF COLUMBIA UNIVERSITY OFFERING COURSES OPEN TO BARNARD STUDENTS:

CHAPLAIN OF THE UNIVERSITY: JOHN M. KRUMM

ADJUNCT PROFESSORS: THEODOR H. GASTER, WILHELM PAUCK

ASSOCIATE PROFESSOR: JACOB TAUBES

ASSISTANT PROFESSOR: ANTON ZIGMUND

ASSOCIATE: SUSAN TAUBES

INSTRUCTOR: JACOB NEUSNER

LECTURER: SAMUEL Z. KLAUSNER

The purpose of the program is to introduce the whole field of religion and to present the documents, history and thought of the great religious tradition of the West.

A student majoring in religion will be required to take Courses 1; 9, 10; 12; 14; 17; 83, 84 and other courses to be selected in consultation with her major adviser to complete the required 28 points. Students may select certain Columbia courses for their major requirements with departmental approval. As the study of religion involves other related fields in the humanities and social sciences, a student majoring in religion is also required to take courses amounting to 12 points in two of the following departments: anthropology, English, fine arts, government, Greek and Latin, history, philosophy, sociology. These courses should be selected in consultation with the major adviser.

If a student intends to pursue graduate work, study of languages (such as Hebrew, Greek, Latin, German) is advised. In addition to the language courses given at Barnard College, other language courses at Columbia are open to Barnard students.

The major examination consists of: Two three-hour papers; the first, general and interpretative of the whole field studied; the second, historical, designed to test the material studied in connection with the thought and history of Christianity and Judaism.

A senior essay is not obligatory; however, students of high standing may be invited to submit one as a fulfillment for Course 35, 36. In that case students must submit a proposed topic for their research by April 1 of their junior year.

## **1 (or R1). Introduction to the Study of Religion. 3 points. [6]**

The problem of "religion" as idea, as history, as relationship. The elements of religious reality; God, Man, World, as expressed in historical traditions of east and west. Jewish, Catholic, and Protestant forms of faith. PROFESSOR NIEBUHR and MR. STAHLER. T Th 9:10-10:25.

## **9, 10. The Bible: History, Literature, and Interpretation of the Old and New Testaments. 6 points. [7]**

Autumn Term: Hebrew religion. Its beginnings and nature. Ancient myths,



## BARNARD COLLEGE

stories, and records. Moses; Israel as the covenant people. The prophets. The exile and development of Judaism. Spring Term: The Graeco-Roman world and Jewish background of the first century. The Gospels. The letters of St. Paul. The book of Acts. The spread of Christianity. PROFESSOR NIEBUHR. T Th 10:35–11:50.

- [11. **Hellenism and Judaism in the Pre-Christian Era.** 3 points. PROFESSOR NIEBUHR.

Not given in 1960-61.]

- [12. **Early Christianity in the Light of the Classical Heritage.** 3 points. PROFESSOR NIEBUHR.

Not given in 1960-61.]

13. **Philosophy of Religion** (same as **Philosophy 9**). 3 points. [7]

The metaphysics of theism; a systematic study of concepts related to the existence and nature of God. The possibility of reasonable grounds for religious belief and the religious use of symbol and analogy will be examined. Prerequisite: Course 1 or the permission of the instructor. PROFESSOR POTTER. T Th 10:35–11:50.

14. **Medieval Religious Thought.** 3 points. [9]

A study of the relationships between faith and reason from Augustine and Boethius through Ockham. Special attention will be paid to the universals controversy and the presuppositions and methodology of medieval theology. Open to all except freshmen. MR. STAHLER. T Th 2:10–3:25.

17. **Religious Thought from the Reformation to 1900.** 3 points. [7]

An historical examination of the significance of representative personalities and movements in the sixteenth and nineteenth centuries. Among those considered will be: Luther, Zwingli, the Anabaptists; Peter Remus, Richard Hooker and Schleiermacher, Hegel, Kierkegaard, Feuerbach, and Nietzsche. Open to all except freshmen. MR. STAHLER. T Th 10:35–11:50.

18. **Dialogue and Contemporary Thought.** 3 points. [7]

The challenge of the dialogical approach to contemporary dogmatic and philosophical theology and to religious existentialism as reflected in the writings of Martin Buber, Ferdinand Ebner, Eugen Rosenstock-Huussy, and Franz Rosenzweig. Prerequisite: Course 1, 14, 17, or 26. Open to all except freshmen. MR. STAHLER. T Th 10:35–11:50.

- 25, 26. **Religion in Contemporary Society and Culture.** 6 points. [1]

Autumn Term: An introduction to the theological and intellectual background of the upsurge of religion in contemporary America. Guest lecturers will discuss relevant legal, ethical, and historical questions. Course 25 may be counted towards the contemporary society requirement. Open to all except freshmen. MR. STAHLER. M W F 9.

Spring Term: Religion, its meaning and its expression in contemporary culture. The problem of individual understanding and interpretation. Belief and behavior. Tension between religion as sanctifying and religion as criticizing goals and pur-

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poses. Poetry, art, myth, and religious formulation as symbolic forms expressing related modes of experience. Guest lecturers will present various of these areas of expression. Open to all except freshmen. PROFESSOR NIEBUHR. M W F 9.

**31. Religious Ideas of Man, his Nature and his World.** 3 points. [9]

An analysis in the light of modern knowledge of religious views of "the world, the flesh and the devil." The world: rejected, suspected, or accepted. The flesh: man's psychosomatic unity; the ascetic denial and the romantic reaction. The devil: the divided self; the problem of freedom and guilt. Readings from eastern and western classics and from great critiques of religion. Essays and tutorial discussions. Open to all except freshmen on written permission of the instructor. PROFESSOR NIEBUHR. T Th 2:10-3:25.

**35, 36. Independent Reading and Research.** 2 or 4 points. [0]

A program of study designed to give majors in religion an opportunity to pursue independently a subject of their choosing. Any student admitted to this program will be expected to produce a finished essay which reflects the depth and scope of her research. Upon consultation with her adviser a qualified major may be permitted to write a senior essay which embodies the work of two terms. Consultation periods to be arranged with departmental adviser.

**58. History of Religion in America (same as History 58).** 3 points [4]

The history of religious thought and institutions in the United States from colonial times to the present. Special attention will be paid to the developments of the nineteenth and twentieth centuries. PROFESSOR HARRINGTON. M W F 1.

**83. Seminar: The Platonic Tradition in Western Religion.** 3 points. [0]

A critical examination of religious themes stemming from Platonic and especially Neo-Platonic sources. Among the works considered will be those of Plato, Plotinus, Proclus, and the Florentine and Cambridge Platonists. Juniors and seniors only with the permission of the instructor. MR. STAHER. T 4-6.

**84. Seminar: A Study of Religious Concepts.** 3 points. [0]

Basic and recurrent themes in religion. Their place in myth, ritual, liturgy, and dogma. Interpretation of key words (holiness; sin; salvation; atonement, etc.) in the Hebraic and Christian traditions and their historical relation to ethical and social values. Juniors and seniors only with the permission of the instructor. PROFESSOR NIEBUHR. T 4-6.

## RELATED COURSES IN OTHER DEPARTMENTS

**Oriental Civilizations 35-36.**

**★Oriental Humanities 39-40.**

**Philosophy 23. Social Philosophy (same as Government 35).** 3 points. [6]

The moral and religious implications as well as the broad social significance of "classical" political philosophy. Relying mainly on works by Hobbes, Locke, Rousseau, Bentham, and Marx, key notions will be examined, such as Sovereignty,

## BARNARD COLLEGE

Consent, General Will, Rights, Common Purpose, and the opposition of natural and positivist theories of law. PROFESSOR EMMET. T Th 9:10–10:25.

The following courses at Columbia College are open to Barnard students:

- ★5. **Classics of the Christian Tradition.** 2 points.  
DR. KRUMM. W 6:10–7:50.
- ★6. **Classics of the Jewish Tradition.** 2 points.  
MR. NEUSNER. M W 2.
- ★R14. **An Introduction to Talmudic Literature.** 3 points.  
MR. NEUSNER. M W 2:10–3:25.
- ★16. **History of Post-Biblical Judaism.** 3 points.  
MR. NEUSNER. T Th 2:10–3:25.
- ★52. **Comparative Mythology.** 2 points.  
DR. TAUBES. M 4:10–6.
- ★53. **Ancient Religions.** 2 points.  
PROFESSOR GASTER. Th 4:10–6.
- ★57. **Oriental Religions I.** 2 points.  
PROFESSOR ZIGMUND. T Th 1.
- ★58. **Oriental Religions II.** 2 points.  
PROFESSOR ZIGMUND. T Th 1.
- ★61. **Catholic Thought after Trent.** 3 points.  
PROFESSOR ULANOV. Th 4:10–6:40.
- ★62. **Contemporary Catholic Thought.** 3 points.  
PROFESSOR ULANOV. Th 4:10–6:40.
- ★66. **Protestantism and Culture.** 2 points.  
PROFESSOR PAUCK. T 4:10–6.

## GRADUATE COURSES

Certain graduate courses given at Columbia University are open with the consent of the department and the Committee on Programs and Standing of Barnard College to qualified seniors. Descriptions may be found in the Announcement of the Graduate Faculties. The following courses are recommended:

- ★157, 158. **Theories of Religious Behaviour.** 6 points.  
DR. KLAUSNER. T 4:10–6.
- ★161, 162. **Studies in Buddhism.** 6 points.  
PROFESSOR ZIGMUND. W 4:10–6.



# RUSSIAN

LECTURERS: CATHERINE N. COULTER, LYDIA W. KESICH (Representative), ZOYA A. TRIFUNOVICH

OFFICERS OF COLUMBIA UNIVERSITY OFFERING COURSES OPEN TO BARNARD STUDENTS:

ASSOCIATE PROFESSOR: RUFUS W. MATHEWSON, JR.

ASSISTANT PROFESSOR: FRANKLIN C. D. REEVE

INSTRUCTOR: ROBERT L. BELKNAP

## **1-2. Elementary Full-Year Course. 8 points.**

The essentials of the spoken and written language, with classroom instruction devoted mainly to the study of grammar and to reading; oral practice sessions held in small groups. Work in the language laboratory is part of the course. MRS. KESICH. Language analysis: Section I M W F 9. [1] Section II M W F at hour to be arranged. Oral practice: Two hours to be arranged.

## **3-4. Intermediate Course. 8 points. [4]**

A review and continued study of grammar; composition, reading of moderately difficult texts, and oral practice groups. Prerequisite: Course 2 or the equivalent. -----, Language analysis: M W F 1. Oral practice: Two hours to be arranged.

The following courses at Columbia College are open to Barnard students:

## **★25. Introduction to Russian Literature and Culture. 3 points.**

MR. BELKNAP. M W F 1. A knowledge of Russian is not required.

## **★26. Russian Novel. 3 points.**

PROFESSOR REEVE. M W F 1. A knowledge of Russian is not required.

## **★R29. Russian Drama and Theatre. 3 points.**

-----, T Th 11-12:15. A knowledge of Russian is not required.

## **★33. Readings in Russian Prose. 3 points.**

-----, M W F 12.

## **★34. Pushkin. 3 points.**

MR. BELKNAP. M W F 12.

## **★35-36. Advanced Composition and Conversation. 6 points.**

-----, M W F 10.

## **★52. Readings in Russian Poetry. 3 points.**

PROFESSOR REEVE. M W F 2.

## **★61. Chekhov and the Short Story. 3 points.**

PROFESSOR MATHEWSON. M W F 1.

## **★95. Colloquium in Literary Criticism. 3 points.**

PROFESSOR REEVE. W 3-5.

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- ★96. Seminar. 3 points.  
MR. BELKNAP. W 3-5.

### GRADUATE COURSES

Certain graduate courses given at Columbia University are open to qualified seniors with the consent of the Representative and the Committee on Programs and Standing of Barnard College. A description of these courses will be found in the Announcement of the Graduate Faculties.

- ★103. History of the Russian Language: Introductory Course. 3 points.  
PROFESSOR STILMAN. T Th 2.
- ★133 (Russian Institute). Soviet Russian Literature. 3 points.  
PROFESSOR MATHEWSON. T Th 5.

# SOCIOLOGY

PROFESSOR: MIRRA KOMAROVSKY (Chairman)  
VISITING PROFESSOR: ALEX INKELES  
ASSOCIATE PROFESSORS: BERNARD BARBER, GLADYS MEYER  
ASSISTANT PROFESSOR: RENÉE CLAIRE FOX

Sociology introduces students to the scientific study of society. The basic problems common to all human societies and the varied institutional solutions to these problems make up one large area of sociological interest; hence the sociological study of the family, social class, economic and political institutions, religion, science, ideology, etc. The study of rural and urban communities, human relations in groups, social structure and personality are other areas of sociological interest. So also is the understanding of social change. Sociology is concerned not only with the normal functioning of social institutions but also with social problems such as racial and minority problems, industrial conflict, crime, and other areas of social disorganization. In studying these subjects, materials about American society are given primary emphasis. However, comparative materials from other societies, pre-literate and more highly developed, are extensively used. Finally, sociology seeks to acquaint students with its methods of investigation, from which students can learn important facts about scientific method in general. A student majoring in sociology will be required to take: Course 1–2 and other sociology courses to be selected in consultation with the major adviser. Courses 32; 33; 34; 35; 38; 41; 42; 43, 44 are strongly recommended. Economics 17 is the only course given outside the department which may count towards the major.

Other social sciences: In view of the essential unity of the social sciences, a major in sociology is required to take courses amounting to at least 12 points to be distributed among two of the following departments: anthropology, economics, geography, government, history, philosophy, psychology, religion.

See also Interdepartmental Offerings, page 36.

Major examination: A three-hour written examination in addition to the Graduate Record Examination.

1–2. Introduction to Sociology.

6 points.

[18]

An introduction to sociological analysis with emphasis on contemporary American society. Autumn Term: The structure of society. The family and the other major social institutions; class stratification; social groups, codes, and control; ecology and social organization of modern communities. Spring Term: Social change and social problems. Population and migrations, race and group conflict, community disorganization and crime. Problems of social reorganization. Fulfills the requirement in contemporary society. PROFESSORS KOMAROVSKY, BARBER, MEYER, and FOX.

Section	I	M W F 10.	(Not open to freshmen).
Section	II	M W F 11.	(Not open to freshmen).
Section	III	T Th 9:10–10:25.	(Open to freshmen).
Section	IV	M W F 2.	(Open to freshmen).



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- 21–22. Introduction to Social Work.** 6 points. [9]  
The social and economic situations which lead people to seek help from welfare agencies. The structure and support of public and private welfare in the United States. Current trends in philosophy and policy of social work. Field work for one-half day a week is required and placements are arranged in approved social agencies offering supervision. Open to juniors and seniors. Prerequisite: Course 1–2, Economics 1–2, Psychology 1, or the permission of the instructor. PROFESSOR MEYER. T 2:10–4.
- [31. **Marriage and the Family.** 3 points. PROFESSOR KOMAROVSKY.  
Not given in 1960-61.]
- 32. The Family.** 3 points. [3]  
A systematic study of the American family using comparative materials from other societies. The family cycle from courtship through parenthood and old age. Ethnic and class differences in family life. Recent developments in family theory and research in sociology and related disciplines. Prerequisite: Course 1–2. PROFESSOR KOMAROVSKY. M W F 11.
- 33. The Community. I. Rural-Urban Sociology.** 3 points. [4]  
Cultural, ecological, and institutional patterns in the growth of community life and organization in city and country. Social structure and processes exemplified in recent studies of communities in America and abroad. Prerequisite: Course 1–2. PROFESSOR MEYER. M W F 1.
- 34. The Community. II. Ethnic and Minority and Intergroup Relations.** [4]  
3 points.  
The composition and distribution of populations; major and minority groups, particularly within the United States. The role of these groups in the structure of the community, their particular cultures, internal organization, and problems of individual adjustment. Prerequisite: Course 1–2. PROFESSOR MEYER. M W F 1.
- 35. American Social Classes.** 3 points [5]  
Analysis of modes of living, and group alignments at different social levels in American urban life. Problems of power; the extension of bureaucracy and the growth of white-collar occupations. Prerequisite: Course 1–2. PROFESSOR BARBER. M W F 2.
- 38. Comparative Social Institutions.** 3 points. [5]  
The social institutions that exist in all societies; their different forms. Comparative materials from non-literate, other civilized (China, India, medieval Europe), and contemporary (U.S., Soviet Russia, France, Britain) societies. Principles of institutional patterning and change. Prerequisite: Course 1–2. PROFESSOR BARBER. M W F 2.
- 40. The Sociology of Occupations.** 3 points. [7]  
Theoretical and practical problems of various types of work and workers (e.g., executives, entrepreneurs, professionals, laborers, white-collar workers, etc.) in

## SOCIOLOGY

modern society with comparative materials from other societies. Prerequisite: Course 1-2. PROFESSOR FOX. T Th 10:35-11:50.

- 41. History of Sociological Theory.** 3 points. [3]  
The major contributions of Comte, Spencer, Sumner, Cooley, Durkheim, Simmel, Pareto, and Weber. Prerequisite: Course 1-2. PROFESSOR KOMAROVSKY. M W F 11.
- 42. History of Sociological Theory.** 3 points. [2]  
Sorokin, Parsons, Merton, and other contemporary American sociologists. Prerequisite: Course 1-2. PROFESSOR BARBER. M W F 10.
- 43, 44. Methods of Sociological Research.** 6 points. [10]  
Various qualitative and quantitative methods of social research are presented both from a logical and a sociological point of view. Lectures, critical reading of studies in conjunction with field work exercises. Prerequisite: Course 1-2. Course 43 is prerequisite for Course 44, except by special permission of the department. PROFESSOR FOX. M W F 3.
- [46. Social Movements.** 3 points. PROFESSOR KOMAROVSKY.  
Not given in 1960-61.]
- 52. The Social Psychology of Industrial Societies.** 1 point. [18]  
Prerequisite: One term of a social science. PROFESSOR INKELES. Two hours to be arranged. Given in alternate weeks.
- 97. Senior Seminar.** 3 points. [0]  
Social structure and social change in a non-Western society. India will be the area studied in 1960-61. Open to senior majors and to other seniors who have had at least 12 points of sociology. Group meeting and individual conferences. PROFESSOR MEYER. Th 2:10-4. Individual conferences Th 4-5.
- 98. Seminar.** 3 points. [0]  
Individual study under supervision of members of the department. Open to junior and senior majors with the permission of the instructor. PROFESSORS KOMAROVSKY, MEYER, BARBER, and FOX. Hours to be arranged.

## GRADUATE COURSES

Certain graduate courses given at Columbia University are open to qualified seniors with the consent of the department and the Committee on Programs and Standing of Barnard College. A description of these courses will be found in the Announcement of the Graduate Faculties. Among those suitable for Barnard students the following are recommended:

- ★115. Religion and Society.** 3 points.  
PROFESSOR ETZIONI. T 9-10:50.
- ★116. Religion and Values in Contemporary Life.** 3 points.  
PROFESSOR ETZIONI. T 9-10:50.

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★121. **Industrial Sociology.** 3 points.

PROFESSOR ROGERS. W 4:10–6.

★175. **The Organization of Power in American Society.** 3 points.

PROFESSOR LYND. Th 10–11:50.

★176. **National Planning as a Process of Institutional Change.** 3 points.

PROFESSOR LYND. Th 10–11:50.

★193. **Public Opinion Research.** 3 points.

PROFESSOR HYMAN. W 10–11:50.



# SPANISH

PROFESSORS: EUGENIO FLORIT, AMELIA A. DE DEL RÍO (Chairman)  
ASSOCIATE PROFESSOR: MARGARITA U. DA CAL  
ASSISTANT PROFESSOR: LAURA R. DE GARCÍA-LORCA  
LECTURER: MARIA TERESA ESCOBAL

A major in Spanish is designed to enable the student to understand, speak, and write the language with ease, have a general knowledge of the history and cultural development of Spain and the Spanish American world, with a more profound knowledge of the literature and art of Spain and the Hispanic Republics. A student should concentrate at the same time either on a literary genre, whether it be poetry, the novel, or the theatre, or a period, classical or modern.

A student majoring in Spanish will be required to take Courses 13, 14; 15a–16a; 19; 22; and 23–24; and either 17–18; 25–26; 27–28, or a more advanced course to be chosen in consultation with the department. Courses 1–2; 3, 4; 3a, 4a, and 9, 10 do not count towards the major requirement.

Other fields: The following courses are recommended: Anthropology 4; 9; Fine Arts 75, 76; French 7–8; History ★19, 20; Italian 21; ★193–194; Philosophy 1; 61, 62.

The major examination consists of a three-hour written examination on Spanish literature; a three-hour written examination on Hispanic civilization and Spanish American literature; and a half-hour oral examination on literature and culture. All examinations are conducted in Spanish.

Foreign language requirement for the degree: All new students who intend to satisfy the foreign language requirement in Spanish must take a placement examination before registration. The student will be tested in her knowledge of grammar and her ability to understand, speak, and write Spanish. Those who receive a sufficiently high grade will automatically fulfill the requirement. All others may do so by completing Spanish 5, 6 with a minimum grade of C–.

## LANGUAGE COURSES

- 1–2. Elementary Full-Year Course.** 8 points. [17]  
Grammar, reading, conversation. May not be taken parallel to Italian 1–2. Laboratory work is required. PROFESSORS DA CAL and GARCÍA-LORCA and MRS. ESCOBAL. Section I M T W Th F 9. Section II M T W Th F 2.
- 3, 4. Intermediate Course.** 6 points. [17]  
A rapid review of grammar and syntax, conversation, and reading, discussion and analysis of important works in Spanish and Spanish American literatures. Monthly book reports on outside reading. PROFESSORS DEL RÍO and DA CAL. Section I M W F 9. Section II M W F 1.
- 3a. Intermediate Course in Grammar and Composition.** 3 points. [17]  
The equivalent of Course 4 given for students who have had three years of high school Spanish. Emphasis on oral self-expression and written compositions on outstanding novels and poetry. Monthly book reports on outside reading. PROFESSOR GARCÍA-LORCA. M W F 11.

## BARNARD COLLEGE

- 4a. Advanced Course in Grammar and Composition.** 3 points. [17]  
Emphasis on original composition and translation from Spanish into English and from English into Spanish. Prerequisite: Course 3a or 4. PROFESSOR GARCÍA-LORCA. M W F 11.
- 5, 6. Spanish through Literary Analysis.** 6 points. [17]  
Discussion in Spanish of texts, oral and written composition, reports on outside reading with emphasis on twentieth century writers, occasional translation into English. Prerequisite: Course 3, 4, or three years of high school Spanish. PROFESSORS FLORIT and DEL RÍO. Section I M W F 9. Section II T Th 9, Th 2.
- 9, 10. Intermediate Spanish Conversation.** 2 points. [0]  
Open only to students taking another Spanish course, either term. MRS. ESCOBAL. Section I T 3. Section II Th 3.
- 11–12. Advanced Spanish Conversation.** 2 points. [0]  
Discussion and reports on Spanish subjects. Prerequisite: Course 9, 10. Open only to students taking another Spanish course, either term. MRS. ESCOBAL. Th 4.
- 31–32. Oral Spanish, Advanced Course.** 4 points. [0]  
Discussion based on contemporary Hispanic writers and literary trends, and on Spanish painters; practice in the recitation of poetry and plays. Prerequisite: Course 3, 4 or 3a, 4a, or permission of instructor. Two class hours and one conference. PROFESSORS DA CAL, FLORIT, and GARCÍA-LORCA. M W 3.

## LITERATURE COURSES<sup>1</sup>

Courses marked thus § will satisfy the foreign language requirement, if a minimum of 6 points is taken, and a grade of C– or higher is obtained.

- 13, 14. The Culture of the Hispanic Countries.** 4 points. [6]  
Autumn Term: The history and culture of Spain. Spring Term: The development of Spanish American culture. Lectures and monthly book reports. Prerequisite: Course 3, 4 or 5, 6. PROFESSORS FLORIT and GARCÍA-LORCA. T Th 9.
- §15–§16. Introduction to Spanish Literature.** 6 points. [17]  
Lectures on the history of Spanish literature, reading, reports, and discussion of the outstanding works and authors up to the twentieth century. Not open to majors. This course is not divisible under any circumstances. Prerequisite: Course 3, 4 or 3a, 4a, or 5, 6. PROFESSORS DA CAL and GARCÍA-LORCA. Section I M W F 10. Section II M W F 11.
- §15a–§16a. Spanish Literature.** 6 points. [17]  
Spanish literature from its origins to the end of the seventeenth century, with emphasis on Cervantes. Monthly reports on novels or dramas. Intended for students majoring in Spanish and Spanish-speaking students. Open also to qualified

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<sup>1</sup> All courses are conducted entirely in Spanish.

students on written permission of the instructor. Not open to those who have taken Course 15–16. This course is not divisible under any circumstances. Prerequisite: Course 3, 4 or 3a, 4a, or 5, 6. PROFESSOR DEL RÍO. M W F 10.

[§17–§18. **The Spanish Drama of the Golden Age.** 6 points. PROFESSOR DEL RÍO.

Not given in 1960-61.]

§19. **Nineteenth Century Literature in Spain.** 3 points. [9]

Romantic drama and poetry; the realistic novel. A paper on Galdós. Prerequisite: Course 13, 14, 15–16, 15a–16a, or the written permission of the department. PROFESSOR DA CAL. T Th 2.

§22. **Contemporary Spanish Literature.** 3 points. [9]

A study of outstanding authors from 1898 to 1936. Three written book reports on the main novelists. Prerequisite: Course 13, 14, 15–16, 15a–16a, or the written permission of the department. PROFESSOR DEL RÍO. T Th 2.

§23–§24. **Spanish American Literature.** 4 points. [8]

Lectures and study of the main literary works up to the present time. Book reports on the principal novels. This course is not divisible under any circumstances. Prerequisite: Course 13, 14, 15–16, 15a–16a, or the written permission of the department. PROFESSOR FLORIT. T Th 11.

[§25–§26. **Cervantes.** 6 points. PROFESSOR DEL RÍO.

Not given in 1960-61.]

§27–§28. **Spanish Poetry.** 6 points. [3]

A study of the development of the poetry of Spain from its origin to the present time. Prerequisite: Course 15–16 or 15a–16a, or written permission of the instructor. PROFESSOR FLORIT. M W F 11.

29, 30. **Special Reading.** 4 points. [0]

Discussion on assigned reading to coordinate and supplement the work done in other courses; review of tendencies and literary movements and developments of main literary genres. Open only to seniors. MEMBERS OF THE DEPARTMENT. W F 3.

33, 34. **Masterpieces of Spanish Literature in Translation.** 4 points. [9]

A study of representative works intended to give students with no knowledge of Spanish an idea of the originality and character of the literature of Spain, its relationship to the kindred arts and the scope of its contribution to Western culture. Autumn Term: Middle Ages and Renaissance, from the *Poem of Mio Cid* to Cervantes inclusive; Spring Term: From the baroque period to modern times, Calderón to García-Lorca. Lectures, discussions, and written reports. Conducted in English. PROFESSORS DEL RÍO, FLORIT, DA CAL, and GARCÍA-LORCA. T Th 2.

★**Latin-American Seminar 81–82.** 8 points.

A seminar which examines the mainsprings of civilization and cultural change in Latin America. Designed for senior majors in Latin America Areas. PROFESSORS DE MORELOS and RABASSA. M 3–5.



# ZOOLOGY

PROFESSORS: INGRITH J. DEYRUP, <sup>1</sup>AUBREY GORBMAN, JOHN A. MOORE  
(Chairman)

VISITING ASSISTANT PROFESSOR: REGINA T. O'BRIEN

INSTRUCTOR: PATRICIA L. DUDLEY

LECTURER: <sup>2</sup>LUCENA J. BARTH

ASSISTANTS: LEA K. BLAYMAN, ERIKA H. CASLER, DORIS CELLARIUS, JEANNE SCHNEEBAUM, PHEBE VAN VALEN, SANDRA WHITE, —————, —————

The major program is designed to serve a variety of needs. Some students major in zoology who, though interested in general education, desire specific knowledge of living organisms. Other students specialize in zoology in anticipation of graduate work in this field, or in preparation for medical or dental school. Still others plan a career in government, educational or private research organizations, or wish to teach at the elementary or intermediate school level.

The sequence of courses to be followed will depend in part on the ultimate aims of the student, but some general advice can be offered. The most important thing to keep in mind is that careful planning of the entire course sequence in zoology and related fields is necessary. This is necessary in order to provide a balanced program and to assure that any prerequisites for advanced courses are completed in proper time.

All students majoring in zoology should take Course 1–2 during the first year if possible. Beyond this, there are no specific course requirements, but the following has been found to be a satisfactory sequence for most majors; second year: Courses 3 and 14; third year: Course 13; fourth year: Courses 15 and 72.

Chemistry 1–2 and 41 fulfill the minimum requirements in chemistry for graduate work in zoology and for entrance into medical school, and this amount is generally regarded as the minimum for zoology majors as well. A year of general physics, 3–4, should be taken by majors who plan on graduate work or a career in medicine. This may be taken during the senior year. Graduate work in zoology requires a knowledge of German and French.

Students are encouraged to do summer work in zoological laboratories, such as the Marine Biological Laboratory at Woods Hole, Mass. Assistance towards such work may be awarded to qualified students through the Edna Henry Bennett Memorial Scholarship Fund.

The major thesis, which is closely correlated with the senior seminar, 72, represents an attempt to correlate and analyze the basic concepts of zoology. Further information about it may be obtained from members of the department.

## 1–2. General Zoology. 10 points.

[1]

An introduction to the data, methods and philosophy of modern zoology. The development of genetic concepts, the problems of embryology, evolution, and physiology. The laboratory work consists largely of a study of important invertebrates and vertebrates, together with some exercises on cell structure, genet-

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<sup>1</sup> Absent on leave, 1960–61.

<sup>2</sup> Absent on leave, Spring Term.

ics, embryology, and physiology. PROFESSOR MOORE, DR. DUDLEY, and assistants. Lec. M W F 9. Lab. (4 hours) M 1-5; T 2-6; W 1-5; Th 2-6; F 1-5.

**1a-2a. General Zoology.** 6 points. [1]

Lectures identical with those of Course 1-2. No laboratory work. To follow or parallel a laboratory science. PROFESSOR MOORE. M W F 9.

**3. A Study of Biological Concepts.** 4 points. [6]

An historical survey will be made of discoveries in a specific field of biology, and these will be analyzed as examples of the manner in which scientific knowledge is accumulated. Prerequisite: Course 1-2 or special permission. DR. BARTH. Lec. T Th 9. Lab. (4 hours) F 1-5.

**8. Invertebrate Zoology.** 4 points. [7]

Evolution of invertebrate animals. Comparative study of microscopic and gross structure, functional anatomy, life histories, behavior and distribution of invertebrates. Major emphasis on concepts of interrelationships between animal phyla. Some field trips to representative habitats. Prerequisite: Course 1-2. May be taken parallel to Course 2 with permission of instructor. DR. DUDLEY. Lec. T Th 10. Lab. (4 hours) M 1-5 or Th 2-6.

**13. Histology and Histological Methods.** 5 points. [8]

The microscopic anatomy of vertebrates studied in its descriptive, developmental, comparative, and functional aspects. A portion of the laboratory work is devoted to preparation of tissues for microscopic study. Prerequisite: Course 1-2. PROFESSOR O'BRIEN. Lec. T Th 11. Lab. (4 hours) W 1-5 or Th 2-6.

**14. Embryology.** 4 points. [8]

The development of the vertebrate animal, with a consideration of some of the factors which influence development. Prerequisite: Course 1-2. May be taken parallel to Course 2 with permission of the instructor. PROFESSOR O'BRIEN. Lec. T Th 11. Lab. (4 hours) W 1-5 or Th 2-6.

**16. General Physiology.** 6 points. [2]

The physical characteristics, chemical composition and properties of protoplasm and of cell components. Energy transformations and characteristic activities of various types of cells (muscle contraction, nerve conduction, secretion, etc.) will be discussed in detail. Prerequisite: Course 1-2; Chemistry 41 is recommended. PROFESSOR DEYRUP. Lec. M W F 10. Lab. (6 hours) M W 2-5 or T Th 2-5.

**61, 62. Problems in Zoology.** [0]

Work will be planned to suit the needs of the student after consultation with the instructors. PROFESSORS DEYRUP and GORBMAN, DR. BARTH and DR. DUDLEY. Hours and credit by arrangement.

**72. Senior Seminar.** 2 points. [0]

Reading of literature and discussion of fundamental problems of zoology. PROFESSOR O'BRIEN. Conference period: T 2.

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[129. **Comparative Endocrinology.** 3 points. PROFESSOR GORBMAN.  
Not given in 1960–61.]

[130. **Experimental Procedures in Endocrinology.** 3 points. PROFESSOR  
GORBMAN.  
Not given in 1960–61.]

151. **Vertebrate Physiology.** 6 points. [3]  
Functions and interrelationships of the organs and organ systems of vertebrates. Circulation, respiration, gastro-intestinal function, excretion, additional mechanisms concerned with the regulation of the internal environment, and the integrative role of the central nervous system. Prerequisite: Course 1–2 or equivalent, inorganic chemistry and physics. Admission only with permission of instructor. PROFESSOR DEYRUP. Lec. M W F 11. Lab. (6 hours) M W 2–5.

151a. **Vertebrate Physiology.** 3 points. [3]  
Lectures identical with those of 151. No laboratory work. PROFESSOR DEYRUP.  
M W F 11.



## VI. Professional Schools

Professional training is available at Columbia University in many different areas. Barnard College keeps in close touch with the schools and Class Advisers give pertinent advice concerning them.

The requirements for admission vary: in some instances a Bachelor's degree is essential; in others a student is eligible after two or three years of college study. Since only a limited number of students can be accommodated, the Office of University Admissions selects the most promising applicants. Full information in regard to each school may be obtained from the Secretary of Columbia University.

### THE PROFESSIONAL OPTION

Under the plan of "professional option" an exceptionally good student may receive the Bachelor of Arts degree from Barnard College after the completion of three years of undergraduate work and the first year in professional school. To be eligible for this privilege the student must have completed at Barnard 90 points of academic work which includes all specific requirements, a major of 28 points, and the major examination or major thesis.

Students transferring to Barnard from other institutions may be granted "professional option" only if they have a superior academic record. In no case will this permission be given until the student has done a minimum of a full year's work at Barnard.

Application for admission to this plan must be made to the Committee on Instruction in March of the preceding year.

### ARCHITECTURE

The School of Architecture offers a course of study leading to the professional degree of Bachelor of Architecture. Under normal conditions, this degree may be obtained in four years.

The work at Barnard should include, among other courses, a full year each of English, a foreign language (preferably French or German), mathematics, and either economics, history, government, or sociology. For students not candidates for the Barnard degree, at least one year (30 points) of college work, but preferably more, is required for admission to the School of Architecture.

### BUSINESS

The Graduate School of Business offers: a four term course of study leading to the degree of Master of Business Administration for college

## BARNARD COLLEGE

graduates without previous preparation in business; and advanced studies leading to the degree of Doctor of Philosophy.

Applications for a degree program will be accepted only from students who plan to study during the day-time.

To meet the educational needs of college graduates who wish to undertake advanced business training while employed, special students with appropriate qualifications will be admitted for study, without degree credit, after an interview with the Assistant Dean, 307 Business.

### DENTAL HYGIENE

A two-year course for Dental Hygienists is offered at the School of Dental and Oral Surgery, leading to the Bachelor of Science degree in Dental Hygiene. The minimum requirement for admission is two years (60 points) of college work. The preparatory work at Barnard should include the satisfactory completion of the following requirements: English, 6 points; biological science or chemistry, 3 points; sociology or psychology, 3 points. Applicants who lack not more than 8 of the 60 credits required for admission will be considered for matriculation on condition that the 8 credits be earned during the summer session between the junior and senior years.

This profession is limited to women and is controlled by state law and licensing examination. Graduates are qualified as dental hygiene teachers and public health dental hygienists.

Two scholarships of \$300 each are offered each year, provided by the Dental Hygienists' Alumnae Association of Columbia University.

### DENTAL AND ORAL SURGERY

The School of Dental and Oral Surgery offers a four-year course of study leading to the degree of Doctor of Dental Surgery. The preparatory work at Barnard should comprise a minimum of 6 points each in English composition and literature, physics, zoology, inorganic chemistry, and organic chemistry. The Admissions Committee of the School of Dental and Oral Surgery will consider carefully the entire pre-dental record and select the most promising candidates. The minimum requirement for admission is three years (90 points) of college work.

### ENGINEERING

The School of Engineering offers undergraduate programs in chemical, civil, electrical, industrial, mechanical, mining, metallurgical, mineral, and nuclear engineering. Each of these programs is a blend of four

## PROFESSIONAL SCHOOLS

groups of studies: first, those designed to broaden the student's general cultural education; second, those intended to give her competence in mathematics and the natural sciences; third, the basic engineering sciences such as mechanics of materials; and fourth, those by which she will become thoroughly grounded in the application of fundamental principles to her specific field of engineering.

Because of the scope of these programs the first three years of the five-year program leading to the degrees of Bachelor of Arts and Bachelor of Science are spent under the jurisdiction of Barnard College, and a minimum of courses are taken in the engineering school. After successful completion of the first three years' work, the student applies for admission to the School of Engineering, and the remaining two years of more specialized engineering study are taken under the School of Engineering. This program is known as the "professional option" program.

Although the above plan is educationally desirable, it is possible in some cases for the exceptional student to complete the prescribed subjects with two years in Barnard College and two years in the School of Engineering. This program leads only to the degree of Bachelor of Science.

Students who are interested in engineering should offer at entrance to Barnard mathematics through trigonometry, one credit in chemistry, and if possible, one in physics. For details the student should consult the Dean of the School of Engineering.

Further information about the engineering program and the advanced degrees may be obtained from the Announcement of the School of Engineering.

## INTERNATIONAL AFFAIRS AND AREA INSTITUTES

The purpose of the School of International Affairs is to provide a course of instruction which will equip a limited number of students for staff and administrative posts in international fields. Emphasis is upon the acquisition of an adequate knowledge and understanding of the field generally, and a specialized knowledge of one area of the world. The degree of Master of International Affairs will be awarded upon the satisfactory completion of the course.

The basic requirements for admission are: (a) a superior undergraduate record and (b) a Bachelor's degree from an approved institution. Students in the School of International Affairs as well as in other graduate departments of the University may elect to take an area concentration in one of the several area institutes: East Asian Institute, Near and Middle East Institute, the Program on East Central Europe, Russian Institute, European Institute.



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Further information may be obtained from the Office of University Admissions.

### JOURNALISM

The Graduate School of Journalism offers a one-year course leading to the degree of Master of Science. A Bachelor's degree is required for admission to this school. Undergraduate work should, wherever possible, include courses in English composition, government of the United States, history since 1914, economics and sociology. The applicant must have completed courses totaling 96 points in liberal arts and sciences.

### LAW

The School of Law offers a three-year course of study leading to the degree of Bachelor of Laws. The preparatory work at Barnard must be of good grade. Although there is no required pre-law curriculum, students would be well advised to take courses in English, American political history, English political and constitutional history, economics, and in logic or philosophy or both. The minimum requirement for admission is three years (90 points) of college work, but the complete college course of four years is considered advisable. Admission is on a competitive basis. All applicants for admission to the Law School are required to take an aptitude test. This test will be given in many locations throughout the United States several times during the academic year. For further information write to the Educational Testing Service, 20 Nassau Street, Princeton, New Jersey.

### LIBRARY SERVICE

The School of Library Service offers a one-year course of study leading to the degree of Master of Science. A Bachelor's degree in liberal arts, acceptable scores in the Graduate Record Examination, and evidence of fitness for library work are required for admission. Undergraduate courses should include two years' study of a modern foreign language.

### MEDICINE

The College of Physicians and Surgeons offers a four-year course of study leading to the degree of Doctor of Medicine. The preparatory work at Barnard must be of good grade and must include the requirements prescribed by the New York Board of Regents as follows: approved courses in English, physics, and biology, covering at least one academic year each, and approved courses in chemistry, covering at

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least one and one-half academic years, including an approved course in organic chemistry.

Before admission to the medical school, the entire pre-medical record of each applicant is carefully examined in order that those who are adjudged the most promising candidates for the profession may be selected. While the minimum requirement for admission is three full academic years of college work, the complete college course of four years is considered the most desirable preparation.

### NURSING

Columbia University offers a course of two years and nine months' duration leading to the degree of Bachelor of Science. This program is conducted on the campus of the Columbia-Presbyterian Medical Center. Preparatory work should comprise work in chemistry or biology, psychology, and sociology. Acceptance of a candidate is based on grounds of character and health as well as on fulfillment of the academic requirements. The minimum requirement for admission is two years (60 points) of college work. The course for students who hold a Bachelor's degree is two years and four months.

### OCCUPATIONAL THERAPY

The Faculty of Medicine offers a program of professional study in Occupational Therapy leading to a Bachelor of Science degree. The candidate for admission must offer two years (60 semester hours) of acceptable college work, including a minimum of 6 semester hours in biology (including zoology), chemistry or physics; and 3 semester hours each in psychology and sociology. The course of study is of twenty-five months' duration, including two academic years and nine months of clinical experience.

A graduate program of seventeen months is offered for students already possessing a Bachelor of Arts or Science degree. The applicant must meet specific prerequisites of 6 semester hours in biology (including zoology), chemistry or physics; 6 semester hours in psychology and 3 semester hours in sociology. On satisfactory completion of the program of one academic year and nine months of clinical experience, the Faculty of Medicine awards a Certificate.

Acceptance of a student for admission to either program is based on evidence of personal capabilities, a good record of physical health, and emotional stability.

Additional information and guidance may be obtained from the Office of

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Occupational and Physical Therapy, College of Physicians and Surgeons, 630 West 168th Street, New York 32, N. Y.

### PHYSICAL THERAPY

The Faculty of Medicine offers a program of professional study in Physical Therapy which leads to the Bachelor of Science degree. The candidate for admission must offer two years (60 points) of acceptable college work, including 6 points in biological science, 4 points in physics or chemistry, and 6 points in psychology. Requirements for admission to the licensure examination for physical therapists in the State of New York include 6 semester credits in biology, 6 in chemistry, and 6 in physics. Three of the required credits in physics will be earned during the study of physical therapy at Columbia. Students who plan to practice in New York State should accordingly fulfill the remainder of these requirements.

The course of professional study covers twenty-one calendar months, including two academic years of didactic instruction and clinical practice, and a two-month clerkship following the junior year of study.

A graduate program of one calendar year is offered for students already possessing a Bachelor of Arts or Bachelor of Science degree, who have completed the following points in science: 8 semester credits in biological science; 6 semester credits in physics or chemistry (preferably both); 10 semester credits in social science (of which 6 must be in psychology). The Faculty of Medicine awards a Certificate upon satisfactory completion of this course.

Acceptance of a student for admission to either program is based on evidence of personal capability, and on health and character as well as on the fulfillment of academic requirements.

Information and guidance regarding courses may be obtained from the Office of Physical and Occupational Therapy, College of Physicians and Surgeons, 630 West 168th Street, New York 32, N. Y.

### PROGRAM IN THE ARTS

The Program in the Arts offers to graduates with a Bachelor's degree from Columbia University, or from another institution of acceptable standing, a course of study in a minimum of one year, leading to the degree of Master of Fine Arts (in painting, sculpture, broadcasting, and motion pictures).

A bulletin describing these courses is available at the Office of University Admissions.



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### PUBLIC HEALTH AND ADMINISTRATIVE MEDICINE

The Faculty of Medicine offers a program of professional study at the School of Public Health and Administrative Medicine leading to the Master of Science degree in Hospital Administration, Administrative Medicine, Biostatistics, Nutrition, and Parasitology. A Bachelor's degree from an approved college and evidence of satisfactory scientific training are necessary for admission. All candidates must spend at least one academic year at the school. An administrative residency of one calendar year's duration is required of all hospital administration students, and candidates for the degree in administrative medicine.

### SOCIAL WORK

The New York School of Social Work of Columbia University offers a two-year course of study leading to the degree of Master of Science. The School is an accredited member of the Council on Social Work Education. The curriculum includes a sequence of courses, supervised field work in social work agencies, and research to prepare students for professional practice in social work.

A Bachelor's degree is required for admission. The undergraduate program of study must include a minimum of 60 points in strictly liberal arts studies and not less than 20 points in the social and biological sciences, with the emphasis in the direction of the social sciences.

An advanced curriculum leading to the degree of Doctor of Social Welfare is offered to graduates of schools of social work.

The School has a limited enrollment and admission is on a selective basis. The General Announcement, giving information about the curriculum and dates for filing application, may be obtained from the Dean of the School, 2 East 91st Street, New York 28, N. Y.

### TEACHERS COLLEGE

Teachers College, Columbia University, offers college graduates a one-year course of study leading to the Master's degree and to teacher certification in any one of these teaching fields: nursery education, kindergarten, elementary education, biology, business subjects, chemistry, English, fine arts, foreign languages, health education, history, mathematics, music, physical education, physics, recreation, science, social studies, speech, and special programs for work with the blind, hard of hearing, deaf, mentally retarded, and physically handicapped.

This fifth year at Teachers College provides for practical experience and classroom instruction. For guidance on planning programs for

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teacher preparation—see Dean Bailey, 117 Milbank Hall, and Professor Lange, 311 Dodge Hall, Teachers College.

### UNION THEOLOGICAL SEMINARY

Union Theological Seminary offers courses of study leading to the degrees of Bachelor of Divinity, Master of Religious Education, Master of Arts in the fields of Christian Education, Biblical Literature, and Comparative Religions, and Master of Sacred Music.

Since accommodations at the Seminary are limited, it is necessary to select from the total number of applicants for admission those who seem best qualified, and who in the light of their expressed purpose, personality, and record of scholarship give especial promise of usefulness in some form of Christian ministry. The requirement for admission is a Bachelor's degree, including special work as indicated below:

- a. Bachelor of Divinity. The preparatory work for this three-year course should include the study of philosophy, especially the history of philosophy, and courses in history, literature, economics, psychology, and at least one modern language, either French or German. A knowledge of Greek is desirable.
- b. Master of Arts in the fields of Christian Education, Biblical Literature, and Comparative Religions. Preparatory work for these courses should include: (1) in Christian Education, some knowledge of the Bible, of the philosophy and ethics of the Christian religion, and of either the psychology of personality or the principles of education; (2) in Biblical Literature, a working knowledge of Hebrew and Greek sufficient to proceed at once to exegesis based on the original languages of the Bible; (3) in Comparative Religions, a general knowledge of the history of religions and a working knowledge of such language as may be necessary for study in the candidate's field of special interest. Students with satisfactory preparation in these subjects may complete the work for the Master of Arts degree in one year.
- c. Master of Religious Education. Preparatory work for this course should be the same as that for the Master of Arts in Christian Education as indicated above.
- d. Master of Sacred Music. Candidates for this degree must give evidence of the completion of an amount of work in music sufficient to enable them to enter with profit upon the courses in sacred music.

The Seminary also participates in joint programs leading to the degrees of Master of Arts and Doctor of Philosophy in the field of religion at Columbia University.

# VII. Fees

Barnard does not charge its students the full cost of their instruction, since its Trustees believe that admission to college should be based on intellectual ability and promise, rather than financial resources. Student payments meet only two-thirds of the total educational expense; the balance must be obtained each year from investment income and from gifts of the Associate Alumnae and other friends of the College. By continuous efforts to increase annual gifts and endowment, and by economy of operation, the College keeps charges as low as possible without sacrificing the quality of its instruction.

## SUMMARY OF FEES

I.	Full-time non-resident students	Each Term	Academic Year
A.	Registration .....	\$ 10.00	\$ 20.00
	Tuition .....	660.00	1,320.00
	Medical Fee .....	5.00	10.00
		<hr/>	<hr/>
		\$ 675.00	\$1,350.00
	Undergraduate Association Activity Fee .....	7.75	15.50
		<hr/>	<hr/>
		\$ 682.75	\$1,365.50
	B. Optional additional Medical Fee to participate in Columbia University Student Medical Plan <sup>1</sup> .....	5.00	10.00
		<hr/>	<hr/>
	Total .....	\$ 687.75	\$1,375.50
II.	Full-time resident students		
	Registration .....	10.00	\$ 20.00
	Tuition .....	660.00	1,320.00
	Medical Fee <sup>2</sup> .....	10.00	20.00
	Room, Board, and Laundry <sup>3</sup> ..	427.50	855.00
		<hr/>	<hr/>
		\$1,107.50	\$2,215.00
	Undergraduate Association Activity Fee .....	7.75	15.50
		<hr/>	<hr/>
	Total .....	\$1,115.25	\$2,230.50

<sup>1</sup> This additional fee is required for all non-resident students not living with parents or relatives.

<sup>2</sup> Includes required participation in Columbia University Student Medical Plan.

<sup>3</sup> Board is available to non-resident students at the annual rate of \$450.



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III. Other students

Matriculated students taking less than a full schedule (11 points or less) and all non-matriculated students are required to pay the registration and medical fees each term, as well as \$55 per point for all academic work and \$5 for physical education, if this is required.

All matriculated students are also required to pay the Undergraduate Association activity fee.

Students registering in absentia are required to pay a registration fee of \$15.

IV. Deposits

All students: In order to obtain a place on the college roll for the ensuing autumn or spring term, students who are currently enrolled must pay a deposit of \$50 on or before May 15 and December 1 respectively. Applicants for admission or readmission must make this advance payment at the time they signify their acceptance of admission or readmission to the College. The deposit of \$50 will be applied to the charges of the autumn or spring term, as the case may be. The entire deposit is forfeited in case of a student's failure to enter, or of her withdrawal.

Resident students: A room deposit of \$50 is payable by May 15 to secure the assignment of a room for the following academic year. One-half of this deposit (\$25) will be applied to the charges of the autumn term and the remainder to the charges of the spring term. The entire deposit is forfeited in case of withdrawal.

Deposits for the use of apparatus and material required in:

Chemistry 23 .....	\$10
Chemistry 24, 26, 41, 42, 57, 64, 78, 87, 88, each course.	\$15

V. Payment of Charges and Fees

All charges and fees are payable semiannually in advance. No reduction is made for late registration. Registration is not complete until all charges and fees are paid. Failure to complete registration (including the payment of all charges and fees) on time imposes automatically the statutory charge of \$15 for late registration.

Payment of charges and fees (accompanied by the stub of the bill) must be made by September 15 for the autumn term and by January 15 for the spring term. If payments are mailed, envelopes must be postmarked not later than September 15 or

January 15 respectively. Students admitted for the autumn term after September 10 must pay their bills not later than September 25.

All charges and fees are subject to change at any time at the discretion of the Trustees.

Checks or money orders in payment of all charges and fees must be in U. S. currency, payable to Barnard College. Checks or money orders should be made out for the exact amount of the payment due. No check which is made out for more than the correct amount will be accepted.

Every financial obligation to the College must be met by January 1 of the autumn term or by May 1 of the spring term, if the student is to be permitted to take her examinations and receive credit for the term's work.

The privileges of the College are not available to any student who is delinquent in the payment of her charges or fees.

(The application fee of \$15, payable when application for admission is filed, is not credited on the bill and is never refunded).

Note: NEW YORK STATE SCHOLARS at the time of registration must file with the Bursar notice of their official award, received from Albany.

## VI. Deferred Payment

In special cases, upon payment of a nominal fee, permission may be obtained from the Bursar to defer the payment of approximately one-half of the total bill for the term until November 15 or March 15, provided that such permission is granted before August 15 (for the autumn term) or December 15 (for the spring term). Any application for the privilege of deferred payment made after August 15 or December 15 will be subject to a late payment fee of \$5. Where the privilege of deferred payment has been granted, each payment must be made on the due date or an additional fee of \$5 for late payment will be incurred. In case of withdrawal the entire bill for charges and fees will become due immediately.

## VII. Refunds

As contracts with instructors and provisions for education and residence are made by the College for the entire year, no refunds of the charges and fees can be made after they become due, except in cases of extreme emergency, of which the College shall be the sole judge. Refunds for the board portion of the charges may be made at the discretion of the College and will

## BARNARD COLLEGE

be computed on a pro-rata basis from the date of withdrawal to the end of the term. Application for the refund must be made in writing at the time of withdrawal to the Director of Residence Halls. The \$50 deposit paid on tuition and one-half (\$25) of the room deposit required for residence are excluded from any refund.

No refunds for board will be made for students who wish to take meals off-campus. Barnard is non-denominational and no provision can be made for special diets.

### VIII. Additional Charges

Freshman orientation: Room and board fee . . . . . \$10.00

Language laboratory work is required for certain courses, but all students have the privilege of using the laboratory. The fee for its use for the year is . . . . . 5.00

Tuition for courses in applied music: See departmental announcement of courses, page 103.

Tuition for technical courses in fine arts: See announcement of the School of General Studies for special fees.

Late registration for academic work (see page 163) . . . . . 15.00

Late filing of program . . . . . 10.00

For students in college who fail to file their programs for the coming term within the period announced for that purpose. Students who defer filing tentative programs for the autumn term until after Commencement are fined \$20.

Deficiency and special examinations, payable in each case before the examination is held:

For each deficiency examination . . . . . 5.00

For each special examination . . . . . 10.00

(A special or deficiency examination is one taken at any time other than at the conclusion of a course actually attended).

Late application for: (1) a deficiency examination; or (2) a foreign language test. . . . . 5.00

### IX. Other Expenses

There are other miscellaneous expenses not payable to the College for which the student should plan. These include: a gymnasium costume, approximately \$15; Student Government dues of \$2 for resident students; and a minimum of \$50 per year for



textbooks. Non-resident students should estimate a minimum of \$100 (\$3 weekly) for lunches, if they plan to buy them in the cafeteria or snack bar. Individual estimates of expense should also include: minimum allowances for transportation for non-resident students, or two round-trip coach fares from home to college for resident students; clothes (\$150); incidentals (\$150-\$200).

## X. Medical Plan

Campus medical service is available to all students and is covered by the comprehensive charge payable each term. Medical examinations are required for freshmen, sophomores, and seniors. (Students will not be allowed to register for the succeeding term until they have had the required medical examination. The final date for completion of the examination by the College Physician is December 15 for seniors; for freshmen and sophomores May 15.)

Resident students and non-resident students not living with family or relatives are required to pay an additional medical fee of \$5 each term. This allows them to participate in the Columbia University Student Medical Plan during the academic year. Non-resident students living at home may also participate in this plan by paying the additional \$5 fee each term. The CUSMP entitles the student to the following services:

A. Barnard College Medical Office: Medical treatment for conditions not requiring bed care; admittance to the Columbia University Infirmary.

B. Columbia University Medical Office: Consultation with specialists; surgical treatment for minor surgical conditions; laboratory and X-ray studies as deemed advisable. All students must be referred by the Barnard College Physician.

Not provided: Dental care; fitting and provision of glasses; house calls.

C. Columbia University Infirmary: Bed care for ten days a term will be provided without charge.

D. St. Luke's Hospital: For more acute surgical and medical conditions requiring hospitalization, four days' ward care at St. Luke's Hospital will be available each term. In practically all situations when additional bed care is needed, it can be spent in convalescence in the infirmary.

## XI. Medical Health Insurance

Students who pay the additional medical fee are eligible to purchase a special student commercial policy which provides basic

## BARNARD COLLEGE

accident benefits in or out of the hospital, basic hospital benefits and doctor's visits. In addition, a major medical expense benefit up to \$5,000 is provided for medical expenses incurred either at home, in the hospital, or in the doctor's office, if resulting from either an accident or an illness. Benefits apply on or off the campus, 24 hours a day, on a calendar year basis, including vacation period, from September 1 to August 31.

The cost of this insurance is \$20.50 per year. See the Bursar's Office for further details.

### XII. Hospital Insurance

All students are eligible for membership in the Associated Hospital-United Medical Service for twelve consecutive months beginning October 1 at a cost of \$41.88. See the Bursar's Office for complete details.

### XIII. Exchange Students' Medical Insurance

Foreign students who live outside the United States are required to subscribe each year to the Exchange Students' Medical Expense Policy issued by the U. S. Life Insurance Company, 84 William Street, New York 38, N. Y., the fee for which is \$25.20.

### XIV. Safekeeping of Students' Funds

Barnard College is not prepared to receive funds from students for safekeeping nor to cash personal checks or travelers checks.

To cover their immediate expenses, students coming to Barnard College should provide themselves with travelers checks, which can be cashed at a local bank, or money orders, which the Columbia University Station of the U. S. Post Office will cash upon presentation of the bursar's receipt. A bursar's receipt is issued when a student registers at the beginning of each term.

It is also possible to open a checking, special checking, or savings account at one of the local banks:

Chemical Bank New York Trust Company  
Broadway and 113th Street, New York 25, N. Y.

First National City Bank of New York  
Broadway and 111th Street, New York 25, N. Y.

American-Irving Savings Bank  
Broadway and 111th Street, New York 25, N. Y.

## VIII. Financial Aid

The College desires that no qualified student be excluded from Barnard because her family has only moderate means.

In effect, every student at Barnard receives some financial aid from past donors, because the College fees do not cover the entire cost of educating the student today. The balance is made up by endowment income and gifts. In addition to scholarships, grants-in-aid and loan funds, which are never sufficient to meet all demands, opportunities for self-help (see Placement Office, page 170) are provided in order to open Barnard's doors to girls of superior talent from all sections of the country, without regard to their ability to pay.

### SCHOLARSHIP FUNDS

Barnard scholarships are awarded annually by the Scholarship Committee to full-time students of high scholarly ability, excellent character, and promise of future accomplishment. The amount of the award (up to \$950 for students who do not live at the College, or \$2,230 for resident students) depends on the student's financial need and is determined from the following:

1. The amount of the parents' contribution as estimated from information given on the College Scholarship Service forms.
2. The amount available from other sources, including New York State Regents' Scholarships.
3. The student's savings distributed over a four-year period.
4. The student's summer earnings (at least \$200 for freshmen and \$300 for sophomores, juniors and seniors).
5. After the freshman year, the student's earnings from part-time work during the academic year.

The basic budget used to compute financial need includes, in addition to the college fees, allowances for other expenses as described on page 146.

Scholarships are for one year only. If the student makes a good record, she is eligible to apply for further assistance in subsequent years.

Scholarship applications for entering students may be obtained from the Admissions Office and should be returned to that office on or before February 15. The student applies in terms of financial need, not for any one of the specific scholarships listed in the following pages.

Entering students who are applying for scholarship aid must also file a financial statement with the College Scholarship Service, Box 176, Princeton, New Jersey, or Box 27986, Los Angeles 27, California, not



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later than February 15 of the senior year in high school. Forms may be obtained from the school or they will be sent by the College Scholarship Service on request. The Service acts as a central filing and distributing agent. Photographic copies of the completed statement will be sent to the colleges named by the applicant.

Each applicant must complete and file both forms as instructed above in order to be considered for a scholarship.

The colleges in the Seven College Conference (including Barnard, Bryn Mawr, Mount Holyoke, Radcliffe, Smith, Vassar, and Wellesley) have agreed to cooperate in an effort to award scholarships on a non-competitive basis. Candidates who qualify for scholarships from more than one of the colleges will be offered, whenever possible, awards which are equivalent and vary only in the amount of the difference in the fees of the colleges.

Applicants are notified of awards at the time they receive their notice of admission to the college.

**STUDENTS IN COLLEGE:** Students in college who are in need of financial aid (scholarships, grants-in-aid, as well as loans) and are academically qualified must file applications on special blanks obtainable in the office of the Dean of Studies. Applications must be filed early in the spring term for the ensuing year, the exact date to be announced.

Applicants for scholarships will be notified as soon as awards are made. Recipients are requested to inform the Dean of Studies immediately, in writing, if because of change of plans, they do not intend to use the funds awarded.

A list of scholarship funds established by gifts or endowment for the students of Barnard College follows. The income from such funds, both unrestricted and restricted, and from the funds for grants-in-aid is available each year.

### SCHOLARSHIP FUNDS—UNRESTRICTED<sup>1</sup>

**ALUMNAE SCHOLARSHIP FUND (1922).** A tenth reunion gift by the Class of 1912, subsequently supplemented by legacy from the estate of Julia Ludlow Young and by gifts of other alumnae. Approximately \$14,900.

**ANNA E. BARNARD SCHOLARSHIP FUND (1899).** In honor of Mrs. John G. Barnard by Emily H. Bourne. \$3,000.

**RUTH MARSHALL BILLIKOPF SCHOLARSHIP FUND (1950).** In honor of Ruth Marshall Billikopf '19. \$5,000.

**VARIAN WHITE BLUMBERG SCHOLARSHIP FUND (1952).** From the estate of Varian White Blumberg '13. \$5,000.

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<sup>1</sup> Figures compiled as of January 1, 1960.

## FINANCIAL AID

CHARLES E. BOGERT MEMORIAL SCHOLARSHIP AND ANNA SHIPPEN YOUNG BOGERT MEMORIAL SCHOLARSHIP FUND (1913). By bequest of Annie P. Burgess. \$10,000.

EVA-LENA MILLER BOOTH SCHOLARSHIP FUND (1932). In memory of Mrs. Eva-Lena Miller Booth, by the New York City Chapter of the Daughters of the American Revolution. \$1,000.

BREARLEY SCHOOL SCHOLARSHIP FUND (1899). By pupils and former pupils of the Brearly School. \$3,000.

MARTHA ORNSTEIN BRENNER SCHOLARSHIP FUND (1915). In memory of Martha Ornstein Brenner '99, by her friends. \$4,000.

JENNIE B. CLARKSON SCHOLARSHIP FUND (1898). By Mrs. W. R. Clarkson. \$3,000.

CLASS OF 1921 SCHOLARSHIP FUND (1931). A tenth reunion gift by the Class of 1921. \$2,500.

CLASS OF 1954 SCHOLARSHIP FUND (1955). Towards their fifth reunion in June, 1959 by the Class of 1954. \$3,734.

ADA M. DONELLE SCHOLARSHIP FUND (1948). By bequest of Mrs. Ada M. Donelle. \$121,751.

FISKE SCHOLARSHIP FUND (1895). By Mrs. Martha T. Fiske-Collord. \$5,000.

IRMA ALEXANDER GOLDFRANK FUND (1919). In memory of Irma Alexander Goldfrank '08, by her friends. \$2,105.

GRAHAM SCHOOL SCHOLARSHIP FUND (1907). By the Graham Alumnae Association. \$7,300.

LOUISE H. GREGORY SCHOLARSHIP FUND (1955). From gifts in memory of Louise H. Gregory. \$4,397.

HARKNESS SCHOLARSHIP FUND (1939). With a gift from Edward S. Harkness. \$100,000.

CHARLES EVANS HUGHES SCHOLARSHIP FUND (1952). By bequest of Charles Evans Hughes. \$14,300.

LILY MURRAY JONES SCHOLARSHIP FUND (1950). In memory of Lily Murray Jones '05, Alumnae Trustee from 1939 to 1943, by Murray, Alfred, and Wallace Jones. \$25,146.

AUGUSTA LARNED SCHOLARSHIP FUND (1924). By bequest of Augusta Larned. \$10,000.

JOAN SPERLING LEWINSON SCHOLARSHIP FUND (1955). With a gift from Joan Sperling Lewinson '13. \$10,896.

JUDITH LEWITTES SCHOLARSHIP FUND (1957). In memory of Judith Lewittes '55, by her family and friends. \$3,423.

AMY LOVEMAN SCHOLARSHIP. See Undergraduate prizes, page 160.

LOUISE GRACE LUBY AND JAMES LUBY SCHOLARSHIP FUND (1947). From the estate of Grace Farrant Luby '93. \$5,000.

MEMORIAL SCHOLARSHIP FUND (1954). To receive contributions in memory of deceased alumnae and friends. \$15,068.

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WILLIAM MOIR SCHOLARSHIP FUND (1912). In memory of William Moir by his wife. \$10,000.

CAROLINE CHURCH MURRAY FUND (1918). In memory of his wife, Caroline Church Murray, by George Welwood Murray. \$5,000.

ANNETTE FLORANCE NATHAN SCHOLARSHIP FUND (1947). From the estate of Frederick Nathan. \$3,000.

LUCRETIA PERRY OSBORN SCHOLARSHIP FUND (1940). In memory of Lucretia Perry Osborn, a Trustee of Barnard College from 1893 to 1930, by her family and friends. \$5,000.

PETER C. RITCHIE, JR. SCHOLARSHIP FUND (1937). By bequest of Virginia J. Ritchie. \$4,400.

EDITH LOWENSTEIN ROSSBACH MEMORIAL SCHOLARSHIP FUND (1950). In memory of Edith Lowenstein Rossbach '19, by her family, friends, and classmates. \$17,805.

EDNA HELLER SACHS SCHOLARSHIP FUND (1955). With a gift from Edna Heller Sachs '10. \$10,000.

ELEANOR BUTLER SANDERS SCHOLARSHIP FUND (1922). By bequest of Henry M. Sanders. \$10,000.

ANNA M. SANDHAM SCHOLARSHIP FUND (1922). By bequest of Anna M. Sandham to Columbia University. \$10,000.

SCHMITT-KANEFENT SCHOLARSHIP FUND (1931). By bequest of Catherine Schmitt. \$7,000.

SCHOLARSHIP FUND (1901). By general subscription through the Scholarship Committee of the Board of Trustees. Approximately \$12,000.

EMILY JAMES SMITH SCHOLARSHIP FUND (1899). In honor of Miss Smith, Dean of Barnard College from 1894 to 1900, by Emily H. Bourne. \$3,000.

GEORGE W. SMITH SCHOLARSHIP FUND (1906). In memory of George W. Smith, a Trustee of Barnard College, by Mrs. Martha T. Fiske-Collord. \$5,000.

EDNA PHILLIPS STERN SCHOLARSHIP FUND (1952). In memory of Edna Phillips Stern '09, by her family and friends. \$20,597.

ISABEL GREENBAUM STONE SCHOLARSHIP FUND (1957). In memory of Isabel Greenbaum Stone '18, by her family. Recipients of these scholarships are urged to repay the amounts they receive as soon as they are in a position to do so. \$6,265.

VELTIN SCHOOL SCHOLARSHIP FUND (1905). By the alumnae of Mlle. Veltin's School. \$3,000.

ALMA F. WALLACH SCHOLARSHIP FUND (1951). In memory of Alma F. Wallach from the estate of Richard L. Leo. \$1,000.

ELLA WEED SCHOLARSHIP FUND (1895). In memory of Ella Weed, chairman of the Academic Committee of the Board of Trustees of Barnard College during the first five years of its existence, by pupils and alumnae of Miss Anne Brown's School. Approximately \$8,600.

HYMEN WERNER SCHOLARSHIP FUND (1953). In memory of her husband, Hymen Werner, by Helen Frankfield Werner '06. \$4,500.



## SCHOLARSHIP FUNDS—RESTRICTED<sup>1</sup>

MARY GERTRUDE EDSON ALDRICH SCHOLARSHIP FUND (1916). By Mrs. James Herman Aldrich to assist in her senior year, a student who has shown in her college life the moral qualities which go to the making of fine womanhood. \$1,000.

BARNARD COLLEGE CLUB OF NEW YORK SCHOLARSHIP FUND (1952). For a Barnard student whose home is outside the area of the City of New York. Approximately \$22,450.

BARNARD SCHOOL ALUMNAE SCHOLARSHIP FUND (1916). By the alumnae of the Barnard School for Girls. Awarded to a student in any class, preference being given to nominees of the school. \$4,000.

WILLINA BARRICK MEMORIAL SCHOLARSHIP FUND (1936). In memory of Willina Barrick '00, by the College Club of Jersey City. Awarded on the nomination of the Club to a graduate of a Jersey City secondary school. \$10,634.

IRVING BERLIN SCHOLARSHIP FUND (1950). By Irving Berlin. Awarded annually to one or more girls of foreign-born parentage. \$23,500.

ALICE MARIE-LOUISE BRETT SCHOLARSHIP FUND (1930). In memory of his daughter, Alice Marie-Louise Brett '15, by bequest of Philip E. Brett. Awarded during her senior year to a student specializing in French. \$10,000.

BROOKLYN SCHOLARSHIPS (1895). By the Trustees of Columbia University in recognition of the gift to Columbia University by President Seth Low of a memorial building for the University Library. Open to students residing in Brooklyn and prepared in a Brooklyn school. Twelve at \$150 each.

ANNE BROWN ENDOWMENT SCHOLARSHIP FUND (1939). In memory of Anne Brown, by the Anne Brown Alumnae Association, for young women of the City of New York. Approximately \$31,339.

CARPENTIER RESIDENCE SCHOLARSHIP FUND (1919). By bequest of Horace W. Carpentier. Awarded annually to students who are not residents of New York City or its vicinity. \$200,000.

ELIZA TAYLOR CHISHOLM MEMORIAL SCHOLARSHIP FUND (1901). By the Alumnae Association of Miss Chisholm's School, which Association reserves the privilege of precedence for such candidates as it may recommend. \$3,000.

MRS. HENRY CLARKE COE SCHOLARSHIP FUND (1910). By the National Society of New England Women, now the New York City Colony of the National Society. Awarded, on nomination of the chairman of the Scholarship Committee of the New York City Colony, to a student from New England or of New England parentage. After the award is made the Society requires from the beneficiary full obedience to discipline and the highest ideals of scholarship. This may be awarded to an entering freshman. \$3,600.

CLASS OF 1919 DECENNIAL FUND (1929). A tenth reunion gift by the Class of 1919, for a resident student. \$5,000.

ENGLISH SCHOLARSHIP FUND (1920). By an anonymous donor. Awarded to a student of good standing who is specializing in English and is in need of help; with

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<sup>1</sup> Figures compiled as of January 1, 1960.

## BARNARD COLLEGE

the proviso that, if in any year there is no student specializing in English who is particularly deserving of aid, the scholarship may be used to assist a student majoring in some other subject. \$5,000.

GLADYS RENSHAW ESTERBROOK SCHOLARSHIP FUND (1958). In memory of her daughter, Gladys Renshaw Esterbrook '20, by bequest of Minnie R. Esterbrook. Preference is given to applicants majoring in English or French. \$5,000.

MARTHA T. FISKE SCHOLARSHIP FUND (1911). In memory of her sister, Mrs. Martha T. Fiske-Collord, by Anna E. Smith. Awarded to an applicant not a resident of New York City or its suburbs. \$5,000.

FOOD FAIR SCHOLARSHIP (1954). By the Food Fair Stores Foundation for employees and sons and daughters of employees of Food Fair Stores.

HELEN JENKINS GEER SCHOLARSHIP FUND (1940). In memory of her mother, Helen Jenkins Geer '15, by Helen Hartley Geer '40. Awarded annually, after conference with the donor. \$5,000.

VIRGINIA GILDERSLEEVE INTERNATIONAL SCHOLARSHIP FUND (1937). In honor of the international work of Dean Emeritus Gildersleeve, by Charles R. Crane. Awarded annually to a foreign student coming to Barnard to study. \$15,100.

EMMA HERTZOG SCHOLARSHIP FUND (1904). With gifts from residents of Yonkers, New York. Awarded, in conference with the faculty of the Yonkers High School, to a graduate of that school. \$3,000.

MARION ALICE HOEY FUND (1944). In memory of Marion Alice Hoey '14, by Nellie Poorman. Preference is given to applicants studying Greek and Latin. \$2,000.

LILLIA BABBITT HYDE SCHOLARSHIP FUND (1953). By the Lillia Babbitt Hyde Foundation. Awarded to pre-medical students. \$25,000.

CHARLOTTE LOUISE JACKSON SCHOLARSHIP FUND (1928). In memory of Charlotte Louise Jackson, by bequest of her sister, Fannie A. Jackson. Awarded to a graduate of a Yonkers high school selected by or under the direction of the Board of Education of Yonkers. \$5,000.

JOINT INDUSTRY BOARD OF THE ELECTRICAL INDUSTRY SCHOLARSHIPS (1951). By the major electrical contracting firms of New York City for sons and daughters of members of Local Union No. 3 of the International Brotherhood of Electrical Workers. Variable in number.

MARY E. LARKIN JOLINE SCHOLARSHIP FUND (1927). By bequest of Mary E. Larkin Joline. Awarded to a student who is specializing in music. \$10,000.

WERNER JOSTEN SCHOLARSHIP FUND (1955). With a gift from Mrs. Werner Josten. Preference is given to a student majoring in music, but if in any year no such student is eligible, the scholarship may be awarded to a student majoring in some other field. \$21,704.

JESSIE KAUFMANN SCHOLARSHIP FUND (1902). In memory of his daughter, Jessie Kaufmann, by Julius Kaufmann. Awarded on the merits of entrance examinations to a student who, after careful investigation, is found to have no relative able to assist her financially. It may be held for the entire college course. \$4,000.

ELEANOR KINNICUTT SCHOLARSHIP FUND (1911). In memory of Mrs. Francis P. Kinnicutt, a Trustee of Barnard College. Awarded at the end of the freshman year

## FINANCIAL AID

to a student of exceptionally high standing. It may be held for three years, provided the recipient continues to maintain a high rank. It will be awarded again in 1960. \$5,000.

CAROLINA MARCIAL-DORADO SCHOLARSHIP FUND (1953). In memory of Professor Carolina Marcial-Dorado, for many years head of the Barnard College Department of Spanish. Awarded to a student from Spain. If at any time there is no applicant from Spain eligible for the grant, it may at the discretion of the Department be awarded to a student who is majoring in Spanish. \$11,700.

EUGENE F. AND MINNIE GOUGER MC GOWAN SCHOLARSHIP FUND (1955). By an anonymous donor. Preference is given to candidates from Mecklenburg County, North Carolina. If in any year no such candidate is eligible, the scholarship may be awarded to a student or students from other areas. \$10,000.

MRS. DONALD MC LEAN SCHOLARSHIP FUND (1906). By the New York City Chapter of the Daughters of the American Revolution. Awarded, in conference with a representative of the Chapter, to a student who agrees to pursue the study of history (chiefly that of the United States) continuously throughout her college course. \$3,000.

FERRY STARR MORGAN SCHOLARSHIP FUND (1959). In memory of her father, by bequest of Grace B. Morgan '19. Awarded to a student who is majoring in music or philosophy. \$10,000.

MARY BARSTOW POPE SCHOLARSHIP FUND (1913). In memory of Mary Barstow Pope, teacher in Miss Chapin's School, by her friends, her fellow-teachers, and her pupils. Open to any undergraduate for the whole or any part of her course, and awarded on the nomination of a self-perpetuating committee representing the founders. \$4,000.

PUBLIC SERVICE SCHOLARSHIP FUND (1934). By the Women's Organization for National Prohibition Reform. Awarded to young women of exceptional ability, interested in following a career of public service in the field of political science, who show special promise of future usefulness in the public service. Awarded at the discretion of the Faculty of Barnard College to one or two students in their junior or senior years. In the case of a particularly promising student the Faculty may, at its discretion, extend the award to cover one, two, or three additional years of graduate study at an approved college or university in order to encourage young women of exceptional ability to complete a course of study which will fit them for service in public life. \$30,000.

LUCILLE PULITZER SCHOLARSHIP FUND (1899). In memory of his daughter, Lucille Pulitzer, by Joseph Pulitzer. Three are restricted to students from the City of New York; eight are for resident students. \$176,450.

AMELIA AGOSTINI DE DEL RÍO SCHOLARSHIP FUND (1955). In honor of Amelia de del Río, Chairman of the Barnard College Department of Spanish. Awarded to a student from Mrs. de del Río's native island of Puerto Rico. If at any time there is no applicant from Puerto Rico eligible for the grant, it may, at the discretion of the Department, be awarded to a student who is majoring in Spanish. \$14,633.

FELIX ST. GEORGE SCHOLARSHIP FUND (1955). In memory of her father, Felix St. George, by bequest of Ida St. George. Awarded to an incoming freshman whose



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subject of interest is a science or pre-medical course, more particularly physics, chemistry, or biology. \$7,450.

FRED CURTIS SMITH MEMORIAL SCHOLARSHIP FUND (1955). In memory of Fred Curtis Smith, at the time of his death Vice President and Mortgage Officer of the Bowery Savings Bank. \$46,000.

EMMA A. TILLOTSON SCHOLARSHIP FUND (1910). By Mrs. Luther G. Tillotson. Awarded at the end of the freshman year to a student of exceptionally high standing. It may be held for three years, provided the recipient continues to maintain a high rank. It will be awarded again in 1960. \$5,000.

CLARA BUTTENWIESER UNGER MEMORIAL FUND (1938). In memory of his daughter, Clara Buttenwieser Unger '13, by Joseph L. Buttenwieser. Awarded annually to assist through her senior year a student whose subject of major interest is government, and who shows promise of ability to contribute to the promotion and perpetuation of true democracy under our Constitution. \$2,500.

HELEN ELIZABETH VOSBURGH SCHOLARSHIP FUND (1934). In memory of Helen Elizabeth Vosburgh '25, by bequest of Katherine G. Lippke. Preference is given to a self-supporting student. \$5,000.

GERTIE EMILY GORMAN WEBB SCHOLARSHIP FUND (1953). By Charles Webb. Awarded to a student nominated by the Department of History. \$5,000.

ALMA GLUCK ZIMBALIST SCHOLARSHIP FUND (1940). By bequest of Alma Gluck Zimbalist. Awarded annually to a student who wishes to major in political science. \$10,000.

## SCHOLARSHIPS—ESTABLISHED ON A TEMPORARY BASIS

ASSOCIATE ALUMNAE LOAN FUND SCHOLARSHIP (1955). By the Associate Alumnae of Barnard College for one or more seniors. \$28,000.

BARNARD-IN-BROOKLYN CLUB SCHOLARSHIP (1944). A tuition scholarship, with variable stipend. Awarded annually to a student from Brooklyn.

THE BARNARD COLLEGE CLUB OF DETROIT SCHOLARSHIP (1958). A tuition scholarship with variable stipend. Awarded annually, with preference given to a new student from Metropolitan Detroit.

HOLLAND DAMES SCHOLARSHIP (1915). In honor of Fanny I. Helmuth, by the Daughters of Holland Dames. Awarded in conference with a representative of the Society to a student descended from the early Dutch settlers.

THRIFT SHOP SCHOLARSHIPS (1938). Awarded annually from the proceeds of the Barnard Scholarship Unit of Everybody's Thrift Shop, 1139 Second Avenue, New York 22, N. Y. This year's funds were given in memory of Elecia Carr Knickerbocker, an alumna of Barnard, long a faithful worker in the Shop.

WESTCHESTER SCHOLARSHIP (1937). In memory of Edna Chapin Close '02, by the Barnard College Club of Westchester. Awarded to entering freshmen from Westchester County for one year only.

## SEVEN COLLEGE SCHOLARSHIPS

The Seven College Conference, made up of Barnard, Bryn Mawr, Mount Holyoke, Radcliffe, Smith, Vassar, and Wellesley, annually offers twenty-one Seven College Scholarships for incoming freshmen. Each college offers a scholarship in each of the three following districts: Central: Colorado, Kansas, Missouri, Nebraska; Southwest: Arkansas, Louisiana, New Mexico, Oklahoma, Texas; West: Arizona, California, Idaho, Oregon, Washington.

The amount of the scholarship will be determined by the college making the award from financial information furnished by the applicant. Honorary scholarships carry no stipend; other awards range up to the full amount for tuition, room, and board.

Information and application blanks may be obtained from the Director of Admissions of Barnard College.

## GRANTS-IN-AID

**IDA BLAIR MEMORIAL FUND (1937).** In memory of Ida Blair by the Women's Democratic Union. To be used for the purchase of books for a student, preferably one studying political science. \$700.

**ARTHUR BROOKS FUND (1897).** By Olivia E. Phelps Stokes as a memorial to the Reverend Arthur Brooks, D.D., Rector of the Church of the Incarnation and Chairman of the Board of Trustees of Barnard College during the first six years of its existence. \$5,000.

**THOMAS F. CLARK STUDENTS' LOAN FUND (1928).** By bequest of Mrs. Fanny Foster Clark. \$100,000.

**GALWAY FUND (1912).** By an anonymous donor. \$2,400.

## LOAN FUNDS

The Associate Alumnae of Barnard College maintain a Student Loan Fund from which seniors are encouraged to borrow. In 1950, through a gift of \$26,000 from Mr. and Mrs. Gerard Swope and Miss Henrietta Swope, an additional fund known as the Swope Loan Fund was established. These two funds are now administered by the Faculty-Alumnae Scholarship and Loan Committee. Awards are made on the basis of integrity, good standing in the community, academic merit, a sense of responsibility, and financial need.

In making application for financial aid, a student specifies the amount she needs. An award may be granted in part as a scholarship or grant-in-aid; the remainder, up to a maximum of \$500, may be available as a loan from the above mentioned funds. Normally, seniors who qualify for financial assistance are expected to take a part of the amount in the form of a loan. No interest is charged while the student is in college. Payments on principal may be made at any time before graduation. Loans are scheduled to be repaid in equal quarterly installments over a three year period, beginning six months after graduation. Interest is charged at the rate of 1% per annum, the total amount for the three years being payable with the first quarterly installment.

## IX. Honors

The following funds were established to honor those who have shown exceptional promise of distinction in their chosen line of work. Students do not apply for these fellowships and scholarships; they are awarded on an honorary basis. The income from these funds is awarded each year, unless otherwise stated.

### GRADUATE FELLOWSHIPS

**DOROTHY ALLEN FELLOWSHIP (1948).** Given on recommendation of the Department of Mathematics to a qualified senior graduating in February or June whose major field is mathematics or physics. The recipient will be selected on the basis of scholarship and character. Indications of a promising career and the student's plans for her future will be among the factors given consideration in making the selection. A needy student shall receive the entire sum towards tuition and other expenses of graduate work in mathematics or physics at an institution selected by the student. A student not in need shall receive \$100. In case no candidate is considered sufficiently well qualified, the award will be deferred until the following year. An award of \$800.

**KIMBALL FELLOWSHIP FUND (1938).** By bequest of Lillian Emma Kimball. Awarded to a woman from Spain or one of the Spanish-American countries who shall pursue a year of graduate work at Columbia or elsewhere, under the direction of a special committee of women members of the Faculty. \$32,800.

**GEORGE WELWOOD MURRAY GRADUATE FELLOWSHIP FUND (1930).** By George Welwood Murray. Awarded as an academic honor to that member of the graduating class of Barnard College who, in the opinion of the Faculty, shows most promise of distinction in her chosen line of work in the field of the humanities and/or the social sciences. Should the recipient prove in no need of financial assistance, she may retain the title and honor but resign the income, which may then be used by the College for other fellowships or scholarships. Students who have graduated in February are eligible as well as those who are to graduate in June. The holder is to pursue a year of graduate study at Columbia or any other university or college of approved standing. \$20,000.

**GRACE POTTER RICE FELLOWSHIP FUND (1935).** In memory of his wife, Grace Potter Rice, Instructor and Assistant Professor of Chemistry at Barnard from 1918 to 1934, by Winthrop Merton Rice. Awarded as an academic honor to that member of the graduating class of Barnard College who, in the opinion of the Faculty, shows most promise of distinction in her chosen line of work. Should the recipient prove in no need of financial assistance, she may retain the title and honor but resign the income, which will then be used for other fellowships or scholarships. Students who have graduated in February are eligible, as well as those who are to graduate in June. The holder is to pursue a year of graduate study in natural sciences or mathematics at Columbia or any other university or college of approved standing. \$24,000.

**THE HERBERT MAULE RICHARDS FUND (1933).** In memory of Professor Richards, a member of the Department of Botany from 1896 to 1928 and Chairman from 1897 to 1928, by the Barnard Botanical Club, former students, and friends. Granted



from time to time to further botanical research, under the direction of an approved institution, to a student or an alumna of Barnard College. \$5,000.

## GRADUATE SCHOLARSHIPS

ALPHA ZETA CLUB GRADUATE SCHOLARSHIP FUND (1936). By the Alpha Zeta Club, Inc. Awarded at the discretion of the Faculty as an academic honor to a member of the graduating class of Barnard College who, in their opinion, shows promise of distinction in her chosen line of work. It may also be awarded to an outstanding recent Barnard graduate who is a candidate for a higher degree. \$6,800.

WILLIAM MASON SCHOLARSHIP (1928). The William Mason Scholarship in music is awarded periodically on recommendation of the Department of Music to a member of the graduating class of Barnard or Columbia College for graduate studies in music. \$500.

MARGARET MEYER GRADUATE SCHOLARSHIP FUND (1952). In memory of Margaret Meyer Cohen '15, by bequest of Annie Nathan Meyer. Awarded to a student in the graduating class for instruction in secretarial work.

## GRADUATE PRIZES

FRANK GILBERT BRYSON PRIZE (1931). In memory of Frank Gilbert Bryson, by bequest of Ella Fitzgerald Bryson '94. Awarded by vote of her class to a senior who has given conspicuous evidence of unselfishness, and who in the opinion of the class has made the greatest contribution to Barnard during her college career. Income on \$3,000.

DEAN PRIZE IN GERMAN (1925). By Edward D. Adams for the promotion of the study of German language and literature in Barnard College. Awarded to that member of the senior class who has throughout her course done the best work in German language and literature. Income on \$1,000.

KOHN MATHEMATICAL PRIZE (1892). By Mrs. S. H. Kohn. Awarded to a senior for excellence in mathematics. Competitors for this prize must have pursued mathematics continuously during their college course. Income on \$1,000.

## UNDERGRADUATE AWARDS<sup>1</sup>

The income from prize funds is awarded each year.

ESTELLE M. ALLISON PRIZE FUND (1937). By bequest of Estelle M. Allison. Awarded to a student for excellence in literature. \$1,000.

MARY E. ALLISON PRIZE FUND (1937). In memory of her mother, Mary E. Allison, by bequest of Estelle M. Allison. Awarded to a student for general excellence in scholarship. \$1,000.

EDNA HENRY BENNETT MEMORIAL SCHOLARSHIP FUND (1927). In memory of Edna Bennett '15, Lecturer in Zoology, by her friends. The income is to be awarded by the Department of Zoology for work at a biological laboratory offering summer courses. \$1,640.

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<sup>1</sup> Figures compiled as of January 1, 1960.

## BARNARD COLLEGE

**THE COLUMBIA UNIVERSITY PRESS PRIZE.** A copy of the Columbia Encyclopedia is awarded by the Columbia University Press to the member of the sophomore class who has done the best writing for Barnard Bulletin.

**FRESHMAN ENGLISH PRIZE.** Awarded to that freshman who, in the opinion of the Department of English, writes the best piece of expository prose. \$35.

**ORAL FRENCH PRIZE.** Awarded annually to a junior for excellence in oral French. The prize is offered to encourage proficiency among students who are not themselves of French background. The winner will be chosen on the basis of a ten-minute disquisition. Candidates must have pursued French courses continuously during their college career. \$50.

**THE JENNY A. GERARD MEDAL (1908).** The Jenny A. Gerard Gold Medal, given by the Society of the Colonial Dames in America in memory of Mrs. James Gerard, late President of the Society, is awarded annually to the undergraduate student writing the best essay on Colonial history.

**GERMAN PRIZE FUND (1950).** Awarded at the end of her junior year to an outstanding student majoring in German. In case the winner does not need scholarship help, the award shall be a prize of \$50 and the balance of the scholarship may be given to another able student majoring in German. If in any year no student qualifies for the award, it may be deferred and given to one or more qualified students at a later date. \$10,000.

**HERRMAN BOTANICAL PRIZE FUND (1892).** By Mrs. Esther Herrman. Awarded to the most proficient undergraduate student in botany. \$1,000.

**MEDAL OF THE HISPANIC INSTITUTE IN THE UNITED STATES.** Awarded to an undergraduate for the best essay on Cervantes.

**THE ELIZABETH JANEWAY PRIZE FOR PROSE WRITING.** Open to all undergraduates for a work of prose, whether fiction or non-fiction, which gives the greatest evidence of creative imagination and sustained ability. All undergraduates who intend to enter the prize competition must notify the chairman of the English Department of their intention to do so by November 1, at which time they will receive detailed instructions as to the requirements. The final manuscripts must be submitted to the chairman by March 15. The prize will be given at the discretion of a board of three judges chosen by the College and the donor. \$500.

**AMY LOVEMAN MEMORIAL FUND (1956).** In memory of Amy Loveman '01, by her friends and classmates. First charge on the income shall be an annual prize of \$100 for the best original poem by a Barnard undergraduate. Terms of the competition will be announced later. The balance of the income shall be allocated to scholarships and shall be known as the Amy Loveman Scholarship. \$20,099.

**THE WILLIAM PEPPERELL MONTAGUE PRIZE FUND (1949).** By William P. Montague, Lecturer, Instructor, and Professor of Philosophy at Barnard College from 1903 to 1949. Awarded to a student of Barnard College who, in the opinion of the members of the Department of Philosophy, shows promise of distinction in the field of philosophy. \$4,236.

**THE HELEN PRINCE MEMORIAL PRIZE FUND (1921).** In memory of his daughter, Helen C. Prince '22, by Julius Prince. Awarded to an undergraduate student for excellence in dramatic composition. \$1,200.

## HONORS

**KATHARINE E. PROVOST MEMORIAL PRIZE FUND (1949).** In memory of Katharine E. Provost. Miss Provost was for twenty-three years Secretary and Assistant to the Comptroller of Barnard College and, at the time of her death, Superintendent of Buildings and Grounds. Awarded for superior work by an undergraduate major in economics. \$1,000.

**CAROLINE GALLUP REED PRIZE FUND (1916).** In memory of her mother, Mrs. Sylvanus Reed, by Mrs. William Barclay Parsons for the recognition of special study in the subject of the origin of Christianity and early church history. Awarded to the student who shows the highest excellence in this field of work. The award is made partly on the basis of an examination and partly on the basis of an essay to be handed in by April 1. Details regarding the scope of the essay may be obtained from the Department of Religion. \$1,000.

**MARIE REIMER SCHOLARSHIP FUND (1953).** In honor of Professor Emeritus Marie Reimer, for many years Chairman of the Barnard College Department of Chemistry, by former students and friends. Awarded at the end of her junior year to an outstanding student majoring in chemistry. In case the winner does not need financial help, the award shall be a prize of \$50 and the balance of the scholarship may be given to another able student majoring in chemistry. If in any year, no student qualifies for the award, it may be deferred until the following year. \$4,416.

**ANGELA DE SALVO SCOLA MEMORIAL PRIZE.** In memory of Angela De Salvo Scola '31, by the Barnard College Club of Springfield, Massachusetts. To be awarded annually from 1961 through 1965 by representatives of each of the romance language departments to a junior for excellence in at least two romance languages. \$50.

**SYLVIA KOPALD SELEKMAN PRIZE FUND (1960).** In memory of Sylvia Kopald Selekman '20, by Janet Robb. Awarded by the Department of Economics to the freshman who is doing the best work in introductory economics.

**SPANISH PRIZE.** To be awarded annually to a Spanish major who, in the opinion of the Department, has done the most distinguished work in the Spanish language and literature. A prize of \$100, the income on the Spanish Prize Fund of \$2,500.

**SPERANZA ITALIAN PRIZE FUND (1911).** In memory of Carlo Leonardo Speranza, Instructor and Professor of Italian at Barnard College from 1890 to 1911, by a former student. Awarded to a student for excellence in Italian. \$1,000.

**JEAN WILLARD TATLOCK MEMORIAL PRIZE FUND (1917).** In memory of Jean Willard Tatlock '95, by her friends. Awarded to the undergraduate student most proficient in Latin. \$1,250.

**VON WAHL PRIZE (1915).** In memory of Constance von Wahl '12, President of the Undergraduate Association. Awarded to a student for excellence in zoology, on the understanding that it is to be used to advance her knowledge in that field. If in any year no student stands out as eminently deserving of the prize, it is not awarded. \$1,300.

The following prizes of Columbia University are by their terms open to students of Barnard College:

**BENNETT PRIZE.** A prize established through a gift of \$1,000 from James Gordon Bennett may be awarded by the Faculty of Political Science for the best essay upon some subject of contemporary interest in the domestic or foreign policy of



## BARNARD COLLEGE

the United States. The competition is open to students not holding a Bachelor's degree who pursue satisfactory courses in political science. The subject for 1960-61 is: "Any topic dealing with the domestic or foreign policy of the United States selected in connection with seminar work in one of the social science departments and approved by the chairman of the Bennett Prize Committee." For additional information consult Professor Richard E. Neustadt.

**THE BUNNER MEDAL.** The H. C. Bunner Gold Medal, in memory of Henry Cuyler Bunner, is awarded at Commencement to the candidate for a Columbia degree who shall present the best essay on any topic dealing with American literature selected in connection with course or seminar work in American literature and approved by the chairman of the Bunner Prize Committee. For additional information consult Professor Quentin Anderson.

**EARLE PRIZE IN CLASSICS.** A prize of \$50, in memory of Mortimer Lamson Earle, Instructor in Greek in Barnard College from 1889 to 1895 and from 1898 to 1900 and Professor of Classical Philology from 1900 to 1905, is awarded to a candidate for the degree of Bachelor of Arts, for excellence in sight translation of passages of Greek and Latin. For further information consult Professor John F. C. Richards.

**THE CAROLINE PHELPS STOKES PRIZE.** The Caroline Phelps Stokes Prize of \$40 is awarded at Commencement to that student who, having been regularly enrolled in Columbia College, Barnard College, or Teachers College as a candidate for an academic degree, for not less than two terms, autumn or spring, shall be deemed to have written the best essay on any topic on the rights of man selected in connection with course or seminar work and approved by the Stokes Prize Committee. For additional information consult Professor C. Lowell Harriss.

**VAN RENSSELAER PRIZE.** To the candidate for a degree in Columbia University who is the author of the best example of English lyric verse. Material must be submitted by March 15. Applicants should submit not more than three poems of their own choice, aggregating not more than twenty pages. Income of the Marianna Griswold Van Rensselaer Fund, about \$50. For additional details consult Professor Frederick W. Dupee.

**WOODBERRY PRIZE.** Established by the Woodberry Society as a memorial to George Edward Woodberry. Awarded every second year to an undergraduate student of the University for the best original poem. Material must be submitted by March 15. Applicants should submit not more than three poems of their own choice, aggregating not more than twenty pages, unless a single poem is submitted in excess of that amount. If in the opinion of the committee of judges, no poem submitted in any prize year is worthy of this award, the prize will not be given. Open for competition in 1960-61. Value of prize about \$100. For additional details consult Professor Marjorie H. Nicolson.

The following prize is also open to Barnard students:

**SUSAN HUNTINGTON VERNON PRIZE.** A prize of about \$25, the annual income of the fund established in 1941 by pupils and friends of Mrs. Vernon, in tribute to her work at the Hispanic Institute, and augmented by her in 1943. The prize is awarded, on recommendation of the chairman of the Department of Spanish, for the best original essay written in Spanish by a senior whose native language is not Spanish, but who is taking language courses at Barnard, Mount Holyoke, Radcliffe, Smith, Vassar or Wellesley.

# X. General Information

## REGISTRATION

Prior to registration incoming students discuss their programs with their Class Adviser. For freshmen individual appointments are made during September, and for transfer students they are planned for the four days preceding the opening of college. Class advisers are appointed from the teaching staff and are prepared to give information and advice on all matters pertaining to the curriculum. For the year 1960-61 the Class Advisers are:

NAME TO BE ANNOUNCED	Adviser to the Class of 1964
MRS. RUTH M. KIVETTE	Adviser to the Class of 1963
MRS. ANNETTE KAR BAXTER	Adviser to the Class of 1962
MISS INEZ G. NELBACH	Adviser to the Class of 1961

On Wednesday and Thursday, September 21 and 22, the freshmen meet together for the first time. The University campus is explored and the varied activities of college life are introduced by upperclassmen and officers of the undergraduate groups.

Registration for all students takes place in the Gymnasium, Barnard Hall, as follows:

### Autumn Term

Monday, September 26	} Old day students (A-Z) All resident students All freshmen and transfers All former students returning after absence
Tuesday, September 27 or	
Wednesday, September 28	

### Spring Term

Monday, February 6	All students (M-Z)
Tuesday, February 7	All students (A-L)

Registration is not complete and classes cannot be attended until all fees, including those for residence, are paid. A fee of \$15 is charged for failure to register on the dates indicated. (See also Payment of Fees, page 146.)

Students will not be allowed to register for the succeeding term until they have had the required medical examination. The final date for the completion of the examination by the College Physician is January 15 for seniors; May 15 for freshmen and sophomores.

No student will be permitted to register after two weeks from the official opening date of either term.

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### REGISTRATION IN ABSENTIA

A student who leaves the College to study at another institution with the intention of offering for credit towards the Barnard degree the work completed at the other institution, is required to register *in absentia*. (See Fees, p. 144). Registration *in absentia* is allowable for one term or two consecutive terms only. The course of study to be pursued must be approved in advance by the Committee on Programs and Standing.

Students who have been registered *in absentia* during the previous academic year, may complete their registration only after the required health forms have been approved by the College Physician.

### CHANGE OF PROGRAM

After a fixed date in each term (autumn, October 7, 1960, spring, February 17, 1961) no change of any kind will be allowed except on the written recommendation of an officer of the College and with the approval of the Dean of Studies. Under no circumstances will a student be permitted to enter a course for credit after two weeks from the official opening date of the term. No course or point may be dropped in the autumn term after December 16 or in the spring term after April 28 except on the advice of the College Physician.

### PROGRAM RESTRICTIONS

Certain restrictions apply to all programs and any variation must have the approval of the Committee on Programs and Standing. The minimum number of points that may be elected each term is 12 and the maximum 16; the maximum number of courses is five. On any one day no more than four hours of class work may be taken, or more than seven hours of class and laboratory work combined. Students may not elect courses meeting consecutively at 11, 12, and 1 o'clock on the same day; one of these hours must be kept free.

All courses must be elected for the credit value announced. No credit is allowed for a one-hour course unless taken in conjunction with the course which it supplements. No credit is allowed for any course elected on an optional or audit basis, even though all work is completed, unless the student changes her registration to a credit basis in the Registrar's office within three weeks of the beginning of the term.

### COLUMBIA UNIVERSITY COURSES

Courses in the Faculties of Political Science, Philosophy and Pure Science are open to well-prepared upper classmen who obtain the approval of the Major Adviser and the Chairman of the Barnard department concerned.



## GENERAL INFORMATION

Seniors with high academic standing may apply for permission to count two graduate courses in the major field towards the graduate degree. Those who wish to register for graduate courses to count towards a higher degree must comply with the following conditions:

1. The approval of the Chairman of the Barnard department must be obtained.
2. The student must be in the last term of her senior year.
3. She must be within 12 points of the Bachelor's degree.
4. The points for graduate credit must be over and above those required for the Bachelor's degree.

Columbia College courses not listed in this announcement may be elected, if the approval of the Dean of Columbia College is procured by the Barnard Registrar.

Courses in the School of General Studies may be credited towards the degree, if passed with a grade not lower than C. For General Studies courses, the approval of the Major Adviser must be obtained for courses in the major, and of the Committee on Programs and Standing for all other courses. In general, approval is given only when an equivalent course is not offered at Barnard, or in cases of conflict.

Teachers College courses may be taken for credit by qualified seniors with the consent of the Dean of Studies and the Registrar of Teachers College. Fees for these courses (\$37 per point) are not included in the regular tuition, but are added to the Barnard bill.

## SUMMER STUDY

Credit is given for summer session courses taken at accredited institutions, if they are approved in advance, and if a minimum grade of C— is obtained in each course. Courses of less than six weeks' duration are credited only in exceptional cases. Students whose average standing in the preceding year fell below 2.50 are restricted to six points of work in a six-weeks' session and a proportionate number for a longer session. No student with an average less than 2.00 will be authorized to attend summer classes.

Additional credit for high standing (see page 166) is not given for summer work.

Students should not expect to fulfill specific requirements for the degree in summer session, but should limit their choice to electives.

Applications for summer study should be filed in the Registrar's office on the specified date. Students are asked to have official transcripts of their summer work sent to the Registrar by November 1.

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### GRADING SYSTEM

Academic standing and eligibility for graduation are determined by the quantity and quality of the student's work. The quantity is estimated by the number of points completed. The credit value in points follows each course title, one point as a rule meaning fifty minutes of class work per week and approximately two hours of preparation. (Laboratory courses, studio work, etc., are exceptions.) Quality of work is gauged numerically by a system of credit ratio, which is the ratio of the number of credits received to the number of points elected. A or A— indicates excellent work; B+, B, B—, good; C+, C, C—, fair; D, poor; F, failure, and P, passed without a specific grade. Work in the major field of unusual merit is awarded the grade, Passed with Distinction.

A course is marked Incomplete (Inc) if the instructor has given the student written permission in advance to postpone the submission of required work. The card signifying such permission must be filed with the Registrar by the date indicated on it. The grade for this work automatically becomes F, if not completed within three weeks after the end of the term. Absent (Abs) means absent from the final examination, and Deferred (Def) means that the grade has been deferred because of illness during the examination. WD signifies that the student withdrew from the course without formal notification.

Each point with a mark of A = 4 credits; B = 3; C = 2; D = 1; F = 0; WD = 0. For every plus or minus an adjustment of +0.3 or -0.3 is made. The average mark per point is the student's rating and is computed at the end of each term.

In any one year no more than 6 points of D work may be counted, and no more than 24 points of D in the total number of credits. Grades of D are not counted in the major field, and no credit for D work is allowed for summer session courses.

Additional credit for high standing will be given to members of the Class of 1961 and the Class of 1962 under the following conditions: one point to the student whose average for the term is 3.50 to 3.69 inclusive, and two points to the student with an average of 3.70 or over, provided the program includes not less than 12 points, all work for the session is completed, and no grade of Absent, Incomplete, Withdrawn, or Deferred is received. Effective with the Class of 1963 the granting of additional points for high standing will be discontinued.

At the end of each term all records are examined. Normally only those students whose cumulative average is 2.00 (C) or above are permitted to remain in college. The continuance in college of students whose work falls below this average depends upon promise of future development and is determined by the Committee on the Academic Standing of Students.

## EXAMINATIONS

Examinations are scheduled at the end of each term. For the academic year 1960-61 they will be held on January 23-February 2 inclusive and May 22-June 1 inclusive.

Deficiency examinations, given in 1960 on September 23, 26, 27, and 28, and, in 1961, on March 13-16 inclusive are open only to those students whose work is satisfactory and who were absent from the regular examinations for reasons of illness, extreme family emergency, or religious observance. Exceptions to these conditions can be made only by ruling of the Committee on the Academic Standing of Students in individual cases. Examinations missed in January are to be taken the following March or, in cases of prolonged illness, in September of the same year. Those missed in May are to be taken in September of the same year. If a student absents herself without a valid excuse from a final or deficiency examination, she will receive a grade of zero for that examination. A fee of \$5, payable in advance, is charged for each deficiency examination.

A senior who has missed an examination at the end of her last term may apply for a special examination for which the fee is \$10, payable in advance.

## QUIZZES

Instructors are not required to give make-ups to those absent from previously announced quizzes. In case an instructor is willing to give a make-up quiz, he is authorized to do so only if the student has submitted a medical certificate of illness approved by the College Physician, or evidence of other extenuating circumstances acceptable to the instructor.

## CLASSIFICATION OF STUDENTS

Students are classified as follows:

Freshmen:	those who have completed fewer than 24 points of academic work
Sophomores:	those who have completed 24 points
Juniors:	those who have completed 54 points
Seniors:	those who have completed 86 points
Unclassified:	those who have not yet been assigned definite credit on transfer

Non-matriculated: those who are not candidates for the degree

No matriculated student may change her status to that of non-matriculated student.



# BARNARD COLLEGE

## DEAN'S LIST

A Dean's List, which contains the names of students who deserve special mention for superior scholarship, is compiled at the end of each academic year. Announcement of the list is made the following October.

## PHI BETA KAPPA

The Barnard section of the Columbia University chapter of Phi Beta Kappa was founded in 1901. Election to the national honor society is a recognition of scholarship and Barnard students of exceptionally high standing are eligible.

## DEGREES

Students are recommended by the Faculty of Barnard College to the Trustees of Columbia University for the degree of Bachelor of Arts. Degrees are granted in June, October, and February.

The Faculty confers honors upon students who complete work for the degree with distinction (*cum laude*), with high distinction (*magna cum laude*) and with highest distinction (*summa cum laude*). Departmental honors are awarded to graduates who have done distinguished work in their major fields.

## ACADEMIC DISCIPLINE

The continuance of a student upon the rolls of the University, the receipt of academic credit, graduation, and the conferring of the degree are subject to the disciplinary powers of the University, which is free to cancel any registration if it seems advisable. The authority of the University is vested in the President of the University. With regard to Barnard students it is exercised by the President of Barnard College in all such cases as the President of the University deems proper.

## ATTENDANCE

All students are expected to attend classes regularly. Students who absent themselves from classes must expect the quality of their work to be affected, with consequent detriment to their academic standing. Frequent or prolonged absences from the College without a compelling reason such as illness will cause a student to forfeit the right to make up work or take final examinations.

The attendance of freshmen and students who are on probation is subject to special review by the Dean of Studies. Excessive absence in

## GENERAL INFORMATION

their cases may result in loss of credit from the total number of points for the term without regard to grades in course.

All absences due to illness must be reported on forms available in the office of the College Physician. Illness is considered an excuse for excessive absence only if the student's statement is filed immediately upon her return to college.

Students who are prevented by conscientious scruples from complying with academic requirements on days set apart by their church for religious observance should make application to their religious counselor for an equitable solution, and have a statement from him filed in the Registrar's office.

### WITHDRAWAL

A student in good academic standing, not subject to discipline, may withdraw from the College with an honorable discharge. Written notification of withdrawal must be sent to the office of the Registrar. A student under twenty-one years of age must furnish written assent of a parent or guardian. (See Refunds, page 145.)

Requests for leaves of absence should be addressed in writing to the Dean of Studies. A student in good standing may be granted a leave of absence for one term or two consecutive terms only, for personal reasons, *e.g.* health, marriage, financial necessity.

### RESIDENCE

There are two dormitories, Brooks and Hewitt Halls, on the Barnard campus and one unit for sixty students at the King's Crown Hotel on the Columbia campus, which provide residence facilities for approximately 425 Barnard undergraduates. There are both single and double rooms in all living units. However, most freshmen are assigned to double rooms.

Brooks and Hewitt Halls are under the supervision of the Director of Residence. The King's Crown unit is supervised by the Director of College Activities. The Executive Committee of the Residence Students Association, made up of representatives from all units, helps to decide matters relative to student welfare and conduct in all units.

Further information concerning living in residence is available in the Residence Halls Handbook sent to all dormitory students on admission to Barnard.

Since Barnard has residence space available for only one-third of the student body, and since the aim of the overall housing policy is to have as many resident students as possible from different parts of the world,

## BARNARD COLLEGE

it is impossible to assign rooms to those who are able to commute to the College, or who are carrying a program of less than eleven points. Ordinarily any student not residing with her parents or husband is required to live on the campus, unless she receives special permission to live elsewhere.

Seniors, juniors, and sophomores will be given permission to live off-campus if they meet one of the following requirements:

1. They must be twenty-one years of age or older at the time the application is made.
2. They may live with close relatives.<sup>1</sup> They may live with adults, at least twenty-five years of age or older, residing in an apartment approved by parents.
3. They may live in a supervised residence, in an approved women's hotel, or have a living-in job registered with the Placement Office.

Freshmen under twenty-one will not be given permission to live off-campus unless with close relatives.<sup>1</sup>

Requests for off-campus housing must be submitted to the Director of College Activities before registration. Any change in residence must be reported to the Director of College Activities immediately.

All students living off-campus, unless with relatives, are required to pay an additional medical fee of \$5.00 a term.

A student violating these regulations is subject to suspension from college for a term, or expulsion.

## ASSEMBLIES

College assemblies and academic meetings at which attendance is obligatory are held on Tuesdays at 1:10 p.m. Assemblies, which are planned by a joint committee of the Faculty and the Undergraduate Association, bring distinguished speakers to the College and provide a forum for the discussion of important topics. Students are required to keep this hour free from other engagements.

## THE PLACEMENT OFFICE

The Placement Office, maintained by the College as a service to alumnae and students, offers assistance in planning for and obtaining full and part-time positions. Through personal interviews and an analysis of

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<sup>1</sup> Close relatives shall be interpreted to mean parents, husband, grandparents, aunts and uncles, married brother or sister, or brother or sister over twenty-one.



## GENERAL INFORMATION

interests and experience, its staff helps to guide students and alumnae into occupations that utilize their capabilities to the fullest extent.

The office, which is open twelve months of the year, keeps in close touch with the needs of employers through the hundreds of jobs referred to the College, through professional contacts of faculty and alumnae, and visits to schools and organizations in business and professional fields made by members of the placement staff. In cooperation with the Advisory Vocational Committee of the Associate Alumnae and a student-faculty committee a program of vocational conferences and meetings is offered on the campus, giving students an opportunity to discuss specific fields of work with experts.

The Placement Office obtains jobs for undergraduates both on and off the Barnard campus. Typical jobs include baby-sitting, tutoring, clerical, laboratory, editorial, and sales work. Freshmen are discouraged from undertaking employment, since it is difficult at first to estimate the amount of time that can safely be spared from academic work. After the first year, a student with good health and sound academic standing should be able to carry part-time employment amounting to not more than ten or twelve hours per week. Student earnings during the college year average \$150.

Summer jobs may be obtained through the Placement Office. Approximately seventy per cent of the Barnard students work during the summer and their earnings average about \$350.

## XI. Associate Alumnae of Barnard College

The Associate Alumnae of Barnard College is made up of over eleven thousand members from all states of the Union and over sixty foreign countries. The Associate Alumnae serve the College in three important ways: by interpreting Barnard to the community; by keeping local secondary school students informed about Barnard; and by aiding in the support of the College.

The Alumnae Association functions through a group of officers, directors and alumnae trustees elected by members of the Association. The central office of the Associate Alumnae is 118 Milbank Hall.

Barnard College Clubs and the Alumnae Council with its nationwide membership make it possible to find spokesmen for Barnard at distances far from New York. High school students considering Barnard may find it helpful to talk personally with the Barnard representatives living nearest them. A list of these representatives as well as officers of the Associate Alumnae is given below.

### OFFICERS OF THE ASSOCIATE ALUMNAE

MRS. HOMER VAN BEUREN JOY, President  
MRS. CARL HARRIS, 1st Vice-President  
MRS. HENRY WETTINGFELD, JR., 2nd Vice-President  
MISS PHYLLIS HADLEY, Treasurer  
MRS. EDGAR T. MEAD, JR., Secretary  
MISS MARY A. BLISS, Executive Secretary

### DIRECTORS

MRS. HAROLD P. BODENSTAB	MRS. DAVID G. HASKINS
MRS. JOHN CHAMBERLAIN	MRS. WILLIAM D. LIPTON
MRS. ROBERT J. COOK	MRS. HERBERT E. MECKE
MRS. JOHN ELLIOTT, JR.	MRS. JOHN F. REILLY
MRS. PAUL H. FLINT	MRS. CLIFFORD RUSCH
MRS. ELEANOR FRIED	MRS. CARL VON HOFFMAN
MRS. FREDERICK J. WOODBRIDGE	

### ALUMNAE TRUSTEES

MISS DOROTHY R. FUNCK	MRS. SYDNEY S. SPIVACK
MRS. HOMER VAN BEUREN JOY	MRS. MARK VAN DOREN

## ASSOCIATE ALUMNAE

### PRESIDENTS OF ALUMNAE CLUBS

#### CALIFORNIA

- Los Angeles County — MRS. PAUL LEYTON  
11837 Kiowa Avenue, Los Angeles 49
- Northern California — MRS. J. R. MELBOSTAD  
355 Vista Linda Road, Mill Valley
- San Diego — MRS. J. ANTHONY SCHWARZMAN  
1855 Lyndon Road, San Diego 3

#### CONNECTICUT

- Fairfield County — MRS. CARLOS GARCIA-MATA  
Oenoke Ridge Road, New Canaan
- Hartford County — MRS. JOSEPH KENNY  
316 Linnmoore Street, Hartford 10
- New Haven — MRS. ROBERT JAY COOK  
651 Prospect Street, New Haven 11

#### DELAWARE

- Wilmington — MRS. EDWARD VON WETTBERG  
210 North Road, Lindamere, Wilmington 3

#### DISTRICT OF COLUMBIA

- Washington — MRS. KARL GOLDBERG  
3801 Connecticut Avenue, N.W.,  
Washington 8

#### FLORIDA

- South Florida — MISS GERTRUDE C. PEIRCE  
2045 South Bayshore Drive, Miami 45

#### INDIANA

- Indianapolis — MRS. R. VANCE LEWTON  
735 E. Kessler Boulevard, Indianapolis 20

#### ILLINOIS

- Chicago — MRS. PHILIP FAST  
822 So. Main Street, Wheaton

#### LOUISIANA

- New Orleans — MRS. C. HERMAN WEINBERG  
348 Broadway, New Orleans 18

#### MARYLAND

- Baltimore — MRS. HUGO SCHILLER  
841 Lake Drive, Baltimore 17

#### MASSACHUSETTS

- Boston — MRS. ALTON MEISTER  
147 Woodchester Drive, Chestnut Hill 67



## BARNARD COLLEGE

### MASSACHUSETTS (cont'd)

Springfield — MRS. ARTHUR A. LEVIN  
1764 Parker Street, Springfield 9

### MICHIGAN

Detroit — MRS. PARBURY P. SCHMIDT  
6290 Wing Lake Road, Birmingham

### MISSOURI

St. Louis — MRS. LEO C. DeVOTO, JR., *Vice President*  
605 St. Christina Lane, Florissant

### NEW JERSEY

North Central — MRS. HAROLD S. OSBORNE  
379 Highland Avenue, Upper Montclair

Monmouth — MRS. FREDERICK G. BREMMER  
14 Pine Ridge Avenue, Middletown

### NEW YORK

Brooklyn — MRS. CHARLES REICHNER  
1970 East 18th Street, Brooklyn 29

Long Island — MRS. FRED KORFF  
Birch Lane, Garden City

New York — MRS. JAMES A. McCREA, JR.  
Hotel Barbizon,  
Lexington Avenue & 63rd Street

Capital District  
(Troy, Albany, Schenectady) — MISS MARION D. DALES  
1055 Waverly Place, Schenectady 8

Rochester — MRS. JAMES W. JOHNSON  
1214 Park Avenue, Rochester 7

Westchester — MRS. DONALD PEARLMAN  
8 Beaumont Circle, Yonkers

Western New York — MRS. JOHN K. WALSH  
116 Carmel Road, Buffalo 14

### OHIO

Cleveland — MRS. CLARENCE HEJL  
24075 Lyman Boulevard, Shaker Heights 22

### PENNSYLVANIA

Philadelphia — MRS. EUGENE H. FINN  
318 Shadeland Avenue, Drexel Hill

Pittsburgh — MRS. LOUIS STARK  
31 Marlin Drive E., Mt. Lebanon

## ASSOCIATE ALUMNAE

### PUERTO RICO

Puerto Rico — MRS. ALBERT SANCHEZ  
P. O. Box 8697, Santurce

### TEXAS

Dallas-Fort Worth — MRS. CLIFFORD K. WILLIAMS  
4215 Ridge Road, Dallas 29

Houston — MRS. MELVIN FINCKE  
910 Sul Ross, Houston 6

### WASHINGTON

State-of-Washington — MRS. PETER WAYS  
3863 50th Street, N.E., Seattle 5

## OTHER ALUMNAE REPRESENTATIVES

MRS. JACKSON M. BARTON  
2506 South 95th Street  
Omaha 24, Nebraska

MRS. ROBERT N. FULTON  
3816 N. W. 61st Street  
Oklahoma City, Oklahoma

MRS. TALCOTT BATES  
Route 31, Box 575  
Carmel, California

MRS. WILL LORENZ  
West 2229 First Avenue  
Spokane, Washington

MRS. BRUNO BITKER  
925 East Wells Street  
Milwaukee, Wisconsin

MRS. REINHARD PAULY  
3970 S. W. Upper Drive  
Oswego, Oregon

MRS. ROBERT BRADBURY  
4537 Kenneth Avenue  
Fair Oaks, California

MRS. ALBERT M. ROCKWOOD  
2415 North Cassady Avenue  
Columbus 19, Ohio

MRS. JAMES S. COLES  
85 Federal Street  
Brunswick, Maine

MRS. J. SAMUEL RUGG  
1135 Oriole Road  
Santa Barbara, California

MRS. WILLIAM F. COURTER  
131 Council Road  
Louisville 7, Kentucky

MRS. RALPH SCHERER  
502 Beverly Drive  
Syracuse, New York

DR. HELEN DANIELLS  
R. F. D. #3, Carson Road  
Princeton, New Jersey

MRS. H. S. WALLERSTEIN  
2622 Park Avenue  
Richmond 20, Virginia

MRS. PATRICK ENNIS  
350 Prospect Street  
Manchester, New Hampshire

MRS. HARRY W. WHITTAKER  
2497 Grandin Road  
Cincinnati 8, Ohio

MRS. CARL E. FEHRENBACH  
3232 South Josephine Street  
Denver 10, Colorado

MRS. RICHARD WOODBURY  
227 East Kleindale Road  
Tucson, Arizona

## XII. College Calendar

- Sept. 15 Thursday. Final payments due, Autumn Term.
- Sept. 19 Monday. Language placement and hygiene tests for freshmen.
- Sept. 21 Wednesday. Language placement and hygiene tests for transfers.
- Sept. 26 Monday. English proficiency test.
- Sept. 26 Monday, through Sept. 28, Wednesday. Deficiency examinations. Registration in person for Autumn Term.
- Sept. 29 Thursday. Autumn Term, seventy-second year begins. Classes begin, 9 a.m. Convocation, 1 p.m.
- Nov. 8 Tuesday. Election Day. Holiday.
- Nov. 22 Tuesday. Annual Thanksgiving Service in St. Paul's Chapel.
- Nov. 24 Thursday, through Nov. 27, Sunday. Thanksgiving holidays.
- Nov. 30 Wednesday. Vocational Conference. Attendance required.
- Dec. 8 Thursday. Required meetings for planning programs.
- Dec. 21 Wednesday, through Jan. 3, 1961, Tuesday. Christmas holidays. Residence halls closed.
- Jan. 15 Sunday. Final payments due Spring Term.
- Jan. 15 Sunday. Annual Commemoration Service in St. Paul's Chapel.
- Jan. 23 Monday. Mid-year examinations begin.
- Feb. 2 Thursday. Autumn Term ends.
- Feb. 3 Friday. Language placement tests.
- Feb. 6 Monday and Feb. 7, Tuesday. Registration in person for Spring Term.
- Feb. 8 Wednesday. Spring Term begins. Classes begin, 9 a.m.
- Feb. 10 Friday. Last day for filing applications for non-competitive scholarships, grants-in-aid, and residence grants.
- Feb. 22 Wednesday. Washington's Birthday. Not a College holiday.
- Apr. 1 Saturday, through April 9, Sunday. Spring holidays.
- Apr. 11 Tuesday. Required meetings for planning programs.
- May 22 Monday. Final examinations begin.
- May 30 Tuesday. Memorial Day. Holiday, except for examinations.
- June 1 Thursday. Spring Term ends.
- June 4 Sunday. Baccalaureate Service.
- June 6 Tuesday. Conferring of degrees.
- July 3 Monday. Sixty-second Summer Session of Columbia University begins.
- Aug. 11 Friday. Sixty-second Summer Session ends.
- Sept. 15 Friday. Final payments due, Autumn Term.
- Sept. 25 Monday, through Sept. 27, Wednesday. Registration in person for Autumn Term, 1961-62.
- Sept. 28 Thursday. Autumn Term, seventy-third year begins. Classes begin 9 a.m. Convocation, 1 p.m.



SEPTEMBER, 1960

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

CALENDAR  
FOR 1960-1961

OCTOBER, 1960

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

FEBRUARY, 1961

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28			

JUNE, 1961

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

NOVEMBER, 1960

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

MARCH, 1961

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

JULY, 1961

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

DECEMBER, 1960

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

APRIL, 1961

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

AUGUST, 1961

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

JANUARY, 1961

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

MAY, 1961

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

SEPTEMBER, 1961

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

### XIII. Statistics

[illegible]

TOTAL BACHELOR'S DEGREES: CONFERRED 1893-1959: A.B., 11,873; B.S., 77.

\* The figures for seniors include students counting the first year in a professional school of the University in place of the fourth year at Barnard as follows:

1913-14	18 in Education	1926-27	2 in Medicine	1934-35	1 in Law	1939-40	1 in Business	1948-49	1 in Medicine
1914-15	3 in Education	1927-28	1 in Architecture		1 in Medicine		1 in Law	1949-50	1 in Law
1916-17	1 in Journalism		1 in Business	1935-36	1 in Architecture	1942-43	1 in Law	<b>1952-53</b>	<b>2 in Law</b>
1921-22	1 in Journalism		2 in Journalism		4 in Law	1943-44	1 in Law		<b>2 in Medicine</b>
1922-23	1 in Journalism	1928-29	1 in Architecture	1936-37	2 in Medicine	1944-45	1 in Law	<b>1953-54</b>	<b>1 in Law</b>
1923-24	2 in Journalism		1 in Journalism	1937-38	3 in Law	1946-47	1 in Medicine		<b>3 in Medicine</b>
	1 in Medicine	1932-33	2 in Journalism	1938-39	1 in Architecture	1947-48	2 in Medicine	<b>1955-56</b>	<b>1 in Medicine</b>
1924-25	1 in Medicine		2 in Medicine		1 in Medicine		1 in Law	<b>1956-57</b>	<b>1 in Law</b>

## XIV. Examination Groups

Courses are arranged in examination groups to avoid conflicts on the examination schedule. Groups are indicated by Arabic boldface numerals in brackets following the course title. Group 0 includes courses which ordinarily do not have final examinations. No student may elect two courses in the same examination group (except Group 0), *unless she files in the Registrar's office with her official program a written statement from one or the other instructor that she will be given a special examination.*

### **Group [1]      M W F 9**

Anthropology 1–2  
Chemistry 41, 42 (M W F 9, F 1)  
Economics 17, 18  
English 56  
French 17–18  
Government 11; 12  
History 7, 8; 37, 38  
Mathematics 1  
Philosophy 1 or R1 (I)  
Psychology 10  
Religion 25, 26  
Russian 1–2 (I)  
Zoology 1–2; 1a–2a

### **Group [2]      M W F 10**

Botany 5, 6  
Chemistry 90  
Economics 27; 28  
English R44; 45; 69; 70; 79, 80  
French R4; R5  
French 25, 26  
Geology 1, 2  
Greek R11; R12  
Italian 3–4  
Mathematics 7–8  
Music 1–2 (I); R31–R32  
Philosophy 1 or R1 (II); 61, 62  
Physics 3–4; 3a–4a  
Psychology 27; 27a; 28; 28a  
Sociology 42  
Zoology 16

### **Group [3]      M W F 11**

Chemistry 55, 56  
Classical Civilization R58  
Economics 16; 23  
English R63; R64; 75  
Fine Arts 91, 92

French 23, 24  
Geography 3, 4  
Government 31, 32  
Greek 21; 22  
History 35, 36  
Humanities 41–42  
Music 1–2 (II); 4; R26  
Philosophy 1 or R1 (III); 43  
Psychology 15; 26  
Sociology 32; 41  
Spanish 27–28  
Zoology 151; 151a

### **Group [4]      M W F 1**

Chemistry 85  
Economics 5, 6  
English 65; 66  
Fine Arts 43  
French R6  
Government 15; 16  
History 43  
History 58 (Religion 58)  
Latin 1–2; 11; 12  
Music 5 (M 1, W 1–3)  
Music 31–32  
Philosophy 5; 84  
Physics 20  
Psychology 57  
Russian 3–4  
Sociology 33; 34; 35; 38

### **Group [5]      M W F 2**

Anthropology 3; 4  
Botany 10  
English 71, 72; 78  
Fine Arts 51, 52  
Geology 32  
Government 9; 10  
Greek 1–2



## BARNARD COLLEGE

History 33–34  
Latin 3; 4  
Mathematics R32  
Philosophy R6; 22  
Philosophy 76  
Sociology 35; 38

### **Group [6]**      T Th 9

Anthropology 9 (9:10–10:25)  
Botany 1–2; 1a–2a.  
English 53, 54  
French 27, 28 (9:10–10:25)  
German 35  
Government 25, 26 (9:10–10:25)  
History 11, 12 (9:10–10:25)  
Italian R10; 20 (8:45–10:25)  
Latin 21; 22 (9:10–10:25)  
Mathematics R6; 60 (9:10–10:25)  
Philosophy I or R1 (IV) (9:10–10:25)  
Philosophy 23 (Government 35)  
    (9:10–10:25)  
Psychology 24  
Psychology 37 (9:10–10:25)  
Religion 1 (9:10–10:25)  
Spanish 13, 14  
Zoology 3

### **Group [7]**      T Th 10

Anthropology 26  
Economics 30 (10:35–11:50)  
Economics 31 (10:35–11:50)  
English 55 (10:35–11:50)  
English 73, 74 (T Th 10, Th 2:30)  
English 84; 88 (10:35–11:50)  
Fine Arts 75, 76 (10:35–11:50)  
French 29; 30 (10:35–11:50)  
Geography 1, 2 (10:35–11:50)  
Government 7; 36 (10:35–11:50)  
Italian 11–12 (10:35–11:50)  
Mathematics 32 (10:35–11:50)  
Philosophy 4 (10:35–11:50)  
Philosophy 9 (Religion 13)  
    (10:35–11:50)  
Religion 9, 10 (10:35–11:50)  
Religion 17; 18 (10:35–11:50)  
Sociology 40 (10:35–11:50)  
Zoology 8

### **Group [8]**      T Th 11

Fine Arts 1–2  
Psychology 21; 68  
Spanish 23–24  
Zoology 13; 14

### **Group [9]**      T Th 2

Anthropology 5–6 (2:10–3:25)  
Botany \*151; \*152  
Economics 19, 20 (2:10–3:25)  
Education 1–2 (T 2–4)  
Education 3–4 (T 2–4)  
English 83 (2:10–3:25)  
English 86 (2:10–3:25)  
Fine Arts 65; 66  
French \*125 (Th 2:10–4)  
Geography 12; 15 E  
German 27, 28  
Government 17; 20 (2:10–3:25)  
Music 14 (2:10–3:25)  
Psychology 32 (T 2; Th 2–5)  
Religion 14 (2:10–3:25)  
Religion 31 (2:10–3:25)  
Sociology 21–22 (T 2–4)  
Spanish 19; 22; 33, 34

### **Group [10]**      M W F 3

Anthropology 19; 20  
Fine Arts 77; 78; 81; 82  
French 11–12; 13  
History 45–46  
Mathematics 34  
Psychology 11 or R11 (M W 2–4)  
Recreational Leadership 1  
Sociology 43, 44

### **Group [11]**

Education 5–6 (Th 2:10–3:30)  
French 14  
Psychology 1 or R1 (Sections)  
Psychology 7–8 (Sections)  
Psychology 41–42

### **Group [12]**

English 41, 42 (Sections)  
Hygiene 1 (Sections)  
Mathematics 30 or R30; 31 or R31  
Philosophy R41

### **Group [13]**

Economics 1–2 (Sections)  
Fine Arts 97–98  
Geography R17

### **Group [14]**

French 1–2 (Sections)  
French 3, 4 (Sections)  
French 5, 6 (Sections)  
French 7–8 (Sections)

## EXAMINATION GROUPS

### Group [15]

German 1–2 (Sections)  
German 3, 4 (Sections)  
German 5, 6 (Sections)  
German 45, 46  
Government 1, 2

Spanish 1–2 (Sections)  
Spanish 3, 4 (Sections)  
Spanish 3a; 4a; 5, 6  
Spanish 15–16 (Sections)  
Spanish 15a–16a

### Group [16]

History 1–2 (Sections)  
Oriental Civilizations 35–36

### Group [18]

Sociology 1–2 (Sections)  
Sociology 52

### Group [17]

Italian 1–2 (Sections)  
Italian 21; 22

### Group [19]

Chemistry 1–2; 1a–2a  
Chemistry 23  
Chemistry 24  
Chemistry 26

## Group [0]

There is no restriction on courses in this group. They may be taken together or with courses in other groups, provided there is no conflict in class hours. Group [0] includes courses which ordinarily do not have set examinations.

American Studies 1, 2; 3, 4  
Anthropology 51, 52; 53, 54  
Botany \*161, \*162  
British Civilization 81–82  
Chemistry 57; 64; 78; 87, 88; 99  
Economics 61, 62; 63, 64  
English A1–A2; D1, D2  
English 1, 2; 3, 4  
English 7, 8; 11, 12; 13, 14  
English 19; 20; 21, 22; R21  
English 23, 24; 27, 28; 29–30  
English 91, 92; 93; R93  
English 97, 98; R98, R97  
French 15–16; 37–38; 39–40

Geography 59  
Geology 60  
German 3a, 4a  
Government 45, 46; 61, 62  
History 81, 82; 83, 84  
History 85, 86; 87, 88  
Music R32a; R33a; 39–40; 79–80  
Philosophy 63, 64; 65–66  
Psychology 47; 48  
Religion 35, 36; 83, 84  
Sociology 97; 98  
Spanish 9, 10; 11–12  
Spanish 29, 30; 31–32  
Zoology 61, 62; 72

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BEQUEST FORM

General

I, . . . . ., give and bequeath to Barnard College in the City of New York the sum of . . . . .for the uses and purposes of the said Corporation.

Endowment

I, . . . . ., give and bequeath to Barnard College in the City of New York the sum of . . . . .to be added to the General Endowment of the said Corporation.

For a Specific Purpose

I, . . . . ., give and bequeath to Barnard College in the City of New York the sum of . . . . .to be used for the purposes of . . . . .  
. . . . .  
to be known as the . . . . .Fund. If at any time in the judgment of the Trustees of the said Corporation, the need of income for such purposes no longer exists, the Trustees of the said Corporation shall be, and hereby are, authorized to use the income from the Fund for such purposes as shall in their judgment promote the interests of the College.



## NOTES

## NOTES

# NOTES



## Plan of Buildings and Grounds

